

4/4/9/ 05

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June 3, 1991

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Mr. Chris Stubbs
South Coast Groundwater
Section (H-6-4)
United States Environmental
Protection Agency
Region IX
75 Hawthorne Street
San Francisco, California 94105

JUN 1 2 1991

PRC ENVIRONMENTAL MANAGEMENT, INC.

Attention:

Contains Material

Subject to Confidentiality Claim

Re: Clyde Lee, Inc.'s Response

to March 15, 1991 EPA General Notice Letter

Dear Mr. Stubbs:

This letter and its enclosures responds to your March 14, 1991 "Notice of Potential Liability" under Section 104 of the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA") 42 U.S.C. Section 9601 et seq., as amended. This firm represents Clyde Lee, Inc. ("Clyde Lee") dba "Sprayco, Inc." at 12600 S. Saticoy Street (the "Site"). Under an agreement between your counsel, Marsha Preston, Esq., and Baker & McKenzie, Tegal representatives for Clyde Lee in this matter, the deadline for responding to this request for information was extended until and including June 3, 1991.

This response is based upon information and documents presently available to and located by Clyde Lee and its counsel; however, this response is subject to an ongoing investigation. Consequently, the response is without prejudice to Clyde Lee's right to produce additional information or documents should they be located or become available in the future. All information responsive to your requests has been included.

Clyde Lee generally objects to each and every one of the Environmental Protection Agency ("EPA")'s requests insofar as

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Mr. Chris Stubbs June 3, 1991 Page 2

they seek the production of any information, communications or documents protected by the attorney-client privilege or the work product privilege. Each of the responses that follows is made expressly subject to and without waiving these objections, which are hereby incorporated into each of the responses. Moreover, no incidental or implied admissions are intended by the response, and the fact that Clyde Lee has objected to any request should not be taken to mean that information or documents exist which has not been produced.

Unless otherwise stated, the person answering each of these questions and the person consulted in preparation of the answer on behalf of Clyde Lee is Mr. Neville Isaacson, President. Mr. Isaacson can be contacted through Baker & McKenzie.

Unless otherwise stated, true and accurate copies of all documents consulted, examined or referred to in the preparation of the answer are enclosed. Unless otherwise stated, Clyde Lee is not aware that other persons may be able to provide a more detailed or complete response, or additional responsive documents, to any question contained herein.

Clyde Lee asserts a claim of confidentiality under CERCLA Sections 104(e)(7)(E) and (F), 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b) over all of the following information:

- (a) all liability insurance policies held by Clyde Lee from the time it began operations at, or assumed ownership of (whichever occurred earlier), the Site until the present (enclosed as Exhibit K);
- (b) income tax returns sent to the Federal Internal Revenue Service in the last five years (enclosed as Exhibit L);
- (c) financial statements for the past five fiscal years, including, but not limited to, those filed with the federal and state Internal Revenue Service and Securities and Exchange Commission (enclosed as Exhibit L); and
- (d) any and all information and documents setting forth or relating to Clyde Lee's assets or liabilities, as well as the identity of any and all information regarding the persons who are responsible for such assets and liabilities (enclosed as Exhibit L).

# BAKER & MCKENZIE

Mr. Chris Stubbs June 3, 1991 Page 3

To assist EPA in keeping such information confidential, we have placed these particular Exhibits in a separate volume and attached a cover sheet stating "Company Confidential" to the beginning of each Exhibit over which a confidentiality claim is asserted.

Clyde Lee submits that any release of contamination on the Site has not caused the EPA to incur response costs and that Clyde Lee, therefore, is not a Potentially Responsible Party ("PRP"). In an effort to cooperate with the EPA and to avoid costly and protracted litigation on these difficult technical issues, Clyde Lee is willing to explore the possibility of a de minimis settlement pursuant to Section 122 of CERCLA, 42 U.S.C. § 9622(g). Under Section 122(g)(1), a PRP who is either a "de minimis waste contributor" or a "de minimis land owner" is entitled to negotiate an expedited final settlement. U.S.C. § 9622(g)(1). According to Agency guidelines, a de minimis waste contributor is a PRP who, in the judgment of the Agency, contributed hazardous substances in an amount and of such toxic or other hazardous effects as to be minimal in comparison to other hazardous substances at the facility. 52 Fed. Reg. 24333 (June 30, 1987). Even assuming for settlement purposes only that Sprayco has in any way contributed to the groundwater contamination, the facts indicate that Clyde Lee's circumstances would justify de minimis status.

Please contact Malissa McKeith or me if you require any additional information to assist you in such evaluations. Sprayco is anxious to resolve these matters at the earliest opportunity.

Very truly yours,

Todd'O. Maiden

TOM:wpc Enclosures

# RESPONSE OF CLYDE LEE, INC. TO MARCH 14, 1991 ENVIRONMENTAL PROTECTION AGENCY CERCLA § 104 GENERAL NOTICE LETTER

# THIS RESPONSE IS SUBJECT TO THE LIMITATIONS SET FORTH IN THE ATTACHED COVER LETTER OF JUNE 3, 1991.

1. <u>Question</u>: List the EPA RCRA Identification Numbers of the Respondent, if any.

Response: The Site has been issued EPA I.D. #CAD030383624.

2. <u>Question</u>: Describe the nature and dates of present and past operations at the facility.

Response: Clyde Lee, Inc. ("Clyde Lee") has operated on the Site from 1982 to the present and does business as "Sprayco, Inc." Prior operators include Sprayco, Incorporated, an entity distinct from "Sprayco, Inc." (1976-1982) and Jamespray (approximately 1969-1976). All three entities were/are engaged in the spray coating of various metal parts. Clyde Lee is not aware of Site operators prior to 1969.

3. <u>Question</u>: Identify the current owner(s) of the facility. State the dates during which the current owner owned, operated, or leased any portion of the facility, and provide copies of all documents evidencing or relating to such ownership, operation, or lease, including but not limited to, purchase and sale agreements, deeds, and leases.

Response: The Site has been owned by Mark and Sylvia Ziv from at least 1969 to the present. Mr. and Mrs. Ziv can be contacted at FX-6 Personal Privacy

FX-6 Personal Privacy

Clyde Lee is unaware of the date Mr. and Mrs. Ziv purchased the Site or who owned the Site prior to the Zivs. Enclosed as Exhibits A, B and C are leases dated March 30, 1979 and May 30, 1984 and one lease option dated September, 1981, respectively.

- 4. <u>Question</u>: Identify all prior owners of the facility. For each prior owner further identify:
  - a. The dates of ownership;
  - b. All evidence that hazardous materials were released or threatened to be released at the facility during the period that they owned the facility.

### Response:

a. See response to Question 2, above.

- b. When Clyde Lee came onto the Property in 1982, it found no evidence that hazardous materials were released or threatened to be released at the Site.
- 5. <u>Question</u>: Identify the prior operators and lessees of the facility. For each such operator or lessee, further identify:
  - a. The dates of their operations at or lease of the facility;
  - b. The nature of their operations at the facility;
  - c. All evidence that hazardous materials were released or threatened to be released at the facility during the period in which they were operating at the facility.

# Response:

a & b. Operator and Lessee from 1976 to 1982:
Sprayco, Incorporated (Spray painting)
President: Leonard Moore (Moore Industries)
Last known address: 16650 Schoenborn Street,
Sepulveda, California 91343

Operator and Lessee from 1969 to 1976:
Jamespray (Spray painting)
Owners: Gary and Bill James
Gary James: Owner of Colortec Industrial Finishing
(Spray painting)
Last known address: 11231 Ilex Avenue, Pacoima,
California 91331.

Bill James: Owner of Quality Finishing and Quality Processing
Last known address: 12109 Unit D6 and 12111 1/2
Unit C6
Brandford Street, Sun Valley, California 91352

- c. Enclosed as Exhibit D are photographs of the Site and spray painting operations at the Site prior to 1980 which indicate that the prior lessees operated under a lesser standard of care than the current operator, Clyde Lee. Subsequent to 1982, former employees of prior operators have also stated that excess paints and solvents were disposed of via backyard dumping.
- 6. <u>Question</u>: Provide a scaled map of the facility which includes the locations of significant features. Describe the physical characteristics of the facility, including but not limited to, the following:
  - a. Surface structures (e.g., building, tanks, etc.);

- b. Subsurface structures (e.g., underground tanks, sumps, pits, clarifiers, etc.);
- c. Ground water wells and dry wells, including drilling logs;
- d. Past and present storm water drainage system, sanitary sewer system, including septic tank(s) and subsurface disposal field(s);
- e. Any and all additions, demolitions, or changes of any kind to physical structures on, under, or about the facility, or to the property itself (e.g., excavation work) and state the dates on which such changes occurred.

Response: A drawing of the facility is enclosed as Exhibit E.

- a. The Site contains a single story masonry block structure measuring 75 feet wide by 150 feet long. The front of the building is comprised of offices. Spray coating is performed in the rear portion of the structure on a concrete floor on grade. In a separate room, there is a vapor degreaser used for cleaning metal parts. There is also an area where silk screening takes place. This operation uses extremely small quantities of paint. There is one above ground storage tank (200 gallons) in the degreaser area. Behind the building is an asphalted area where raw and waste materials are stored.
- b. Clyde Lee is not aware of any subsurface structures (e.g., underground tanks, sumps, pits, clarifiers, etc.) having ever existed on the Site.
- c. Clyde Lee is not aware of any ground water wells having ever existed on the Site.
- d. There has never been a subsurface storm water drainage system on the Site. All surface run off drains into Saticoy Street.

The Site utilizes underground plumbing connected to the regional sanitary waste system. Clyde Lee is not aware of any hazardous substances ever being disposed of into the sanitary sewage system. Clyde Lee is not aware of any septic tanks or subsurface disposal fields on the Site.

- e. Clyde Lee is not aware of any additions, or demolitions, etc., at the Site.
- 7. Question: Provide all existing technical or analytical information about the facility, including but not limited to, data and documents related to soil, water (ground and

surface), geology, hydrogeology, or air quality on and about the facility.

Response: An August 27, 1990 soil analysis from Golden State Analytical Services is enclosed at Exhibit F. The excavation from which this soil was taken was actually performed on the property adjoining the Clyde Lee Site. (See answer to Question 15.) Clyde Lee thus contends that these findings do not analyze soils at the Site. On January 14, 1991, the San Jose Creek Water Quality Laboratory analyzed a five-month-old soil sample from the same location. The results of the delayed analysis is attached as Exhibit G.

- 8. Are you or your consultants planning to perform any investigations of the soil, water (ground or surface), geology, hydrogeology, or air quality on or about the facility? If so, identify:
  - a. The nature and scope of these investigations;
  - b. The contractors or other persons that will undertake these investigations;
  - c. The purpose of the investigations;
  - d. The dates when such investigations will take place and be completed;
  - e. Where on the facility such investigations will take place.

# Response:

- a. Per the request of the California Regional Water Quality Control Board, Los Angeles Region ("RWQCB"), Clyde Lee will make three 10 foot soil borings and analyze selected samples using EPA test methods 8010/8020 and 418.1.
- b. Clyde Lee is currently accepting bids from several environmental consulting firms to perform the work described in response 8a.
- c. The investigation is being conducted at the request of the RWQCB.
- d. The dates for performing this work will depend upon the availability of the consultant performing the work.
- e. The soil borings will be conducted behind the building on site by the solvent storage area, the waste storage area and the paint hooks area, respectively. Boring locations will be approved by the Regional Water Board.

9. Did you acquire the facility after the disposal or placement of the hazardous substances on, in or at the facility? Describe all of the facts on which you base the answer to this Question.

Response: Clyde Lee objects to the form of this question insofar as it assumes a hazardous release has already Without waiving its right to object, Clyde Lee answers as follows: Clyde Lee, Inc. leased the facility after many years of spray painting and related operations had been performed by at least two other companies which had operated on the Site. Since at least 1969, the previous operators had used mainly solvent based paints and many chemicals and reducers (paint thinners). At least 99% of Clyde Lee's coatings operations utilize water borne paint and powder coatings. As can be seen from the enclosed photographs attached as Exhibit D, (dating back approximately 15 years), it is clear that the prior operators did not operate according to the same standards with which Clyde Lee currently operates, even to the extent of spilling paints and solvents as well as disposing of the excess paints and waste solvents in the back These facts have only recently been discovered and an investigation is now ongoing to determine further details regarding earlier operators at the Site. See the answer to Question 15 for an explanation as to the August 1990 test Clyde Lee contends that the tested soil was not results. excavated from the Site.

10. At the time you acquired the facility, did you know or have reason to know that any hazardous substance was disposed of on, in, or at the facility? Describe all investigations of the facility that you took prior to acquiring the facility, and all of the facts on which you base the answer to this Question.

Response: Clyde Lee objects to the form of this question insofar as it assumes a hazardous release has already occurred. Without waiving its right to object, Clyde Lee answers as follows: at the time Clyde Lee, Inc. leased this facility, the previous operator, Sprayco, Incorporated, had almost no work and was forced to close its doors. Clyde Lee hired both a spray painting expert and an attorney with experience in these operations to inspect the property prior to leasing it. These consultants advised that the property looked fine. No soil or groundwater contamination was visible or suspected at the time.

11. Did you ever transport to the facility or use, purchase, generate, store, treat, dispose, or otherwise handle at the facility any materials, either hazardous or non-hazardous? If the answer to this question is anything but an unqualified "no", identify:

- a. In general terms, the nature and quantity of the nonhazardous materials so transported, used, purchased, generated, stored, treated, disposed, or otherwise handled;
- b. The common chemical name, specific chemical name, Chemical Abstract Service (CAS) number, chemical composition, characteristics, and physical state (e.g., solid, liquid, gas) of each hazardous material so transported, used, purchased, generated, stored, treated, disposed, or otherwise handled;
- c. The persons who supplied you with each such hazardous material or how each such hazardous material was generated by you;
- d. How each such hazardous material was transported, used, purchased, stored, treated, disposed, or otherwise handled by you;
- e. When each such hazardous material was transported, used, purchased, generated, stored, treated, disposed, or otherwise handled by you;
- f. Where each such hazardous material was used, purchased, generated, stored, treated, disposed, or otherwise handled by you, describing the location(s) and providing a map or diagram of such location(s). Location information should include, but is not limited to, information pertaining to tanks, ponds, treatment facilities, and other units which were historically used to generate, store, treat or dispose of hazardous materials, but which may no longer exist;
- g. The persons who transported and/or disposed of each such hazardous material. If disposal off of the facility occurred, provide a detailed description, including copies of manifests, and identify the location where the hazardous material was transported;
- h. The annual quantity of each such hazardous material used, purchased, generated, stored, treated, transported, disposed, or otherwise handled by you, reported in gallons for liquids and pounds for solids.

# Response:

a. The nature of materials purchased and used on site are better described in the Material Safety Data Sheets attached as Exhibit H. Quantities of substances purchased and used are indicated in part "h" of this response.

b.

Common <u>Chemical Name</u>	Specific Chemical Name	Cas #	Physical State
1.1.1. Trichloroethane Rho Solve M.E.K. Acetone Butyl Cellosolve Polyurethane Reducer	Methal Ethyl Keyton	e	liquid liquid liquid Liquid Liquid Liquid

See also, Exhibit H (MSDS).

- C. These materials were purchased from Rho Chem, 425 Isis Avenue, Inglewood, California 90301, a chemical supplier. The polyurethane, reducer and most paints are purchased from Cardinal Paints, 1329 Potrero Avenue, South El Monte, California 91733. Some of the paints are purchased from Armitage, 1329 Potrero Avenue, South El Monte, California 91733.
- d. These materials were transported by the manufacturers and were purchased in single gallons, 5 gallon pails or 55 gallon drums (with the exception of the trichloroethane which was delivered in bulk into an above ground 200 gallon tank). Flammable materials are stored outside the building in a specially designated area and non-flammable materials inside, in their respective containers. Waste generated is either removed by an authorized waste hauler or recycled on site. A recycling unit for solvent distills fresh solvent from waste. The sludge drops to the bottom and is stored with other paint waste before being transported offsite by a registered hazardous waste transporter.
- e. Hazardous material was never transported by our vehicles. All materials are purchased on an as-needed basis, stored outside in a particular area and disposed of via a licensed hauler.
- f. Refer to diagram, attached as Exhibit I.
  - #1 Paint locker
  - #2 Trichloroethane storage (above ground tank)
  - #3 Waste storage
  - #4 New storage
  - #5 Recycling unit
  - 1,1,1, Trichloroethane is used to clean parts prior to painting. Acetone and butyl cellosolve are used to clean painted parts for silkscreening. Polyurethane reducer is used to thin down polyurethane paint of which our usage is less than 1%.

- g. Various licensed waste haulers were used to dispose of the waste as can be seen from manifests attached as Exhibit J.
- h. Paint usage ±3,000 gal./year 1.1.1. Trichloroethane 800 gal./year ± Rho Solve usage ± 500 gal./year M.E.K. ± 300 gal./year 200 gal./year Acetone usage ± Butyl cellosolve usage ± 100 gal./year Polyurethane reducer <u>+</u> 25 gal./year
- 12. Identify all leaks, spills, releases or threats of releases of any kind into the environment of any hazardous materials that have occurred or may occur at or from the facility. In addition, identify:
  - a. When such releases occurred or may occur;
  - b. How the releases occurred or may occur;
  - c. What hazardous materials were released or may be released;
  - d. What amount of each such hazardous material was so released;
  - e. Where such releases occurred or may occur, describing the locations(s) and providing a map or diagram of such locations(s);
  - f. Any and all activities undertaken in response to each such release or threatened release;
  - g. Any and all investigations of the circumstances, nature, extent, or location of each such release or threatened release, including the results of any soil, water (ground and surface), or air testing that was undertaken;
  - h. Whether any report(s) of any such release(s) was (were) made to any public agency, and the content of that (those) reports(s);
  - i. All persons with information, relating to subparts a. through h. of this Question.

Response: Except for the information found in consultants' reports at Exhibits F and G, Clyde Lee is not aware of any spills that have occurred since it began operating on the Site in 1982. It is possible, of course, that even in the case of carefully-run operation incidental drips will occur. However, company policy stresses avoiding even minor drips for a variety of reasons including OSHA requirements, cost of

product, etc. If any drips do occur, it is the policy of Clyde Lee to wipe up drips as they occur.

- 13. If any releases or threatened release identified in response to Question 12, above, occurred into any subsurface disposal system, floor drain, sump, or dry well inside or under any buildings located on the facility, further identify:
  - a. Precisely where the disposal system, floor drain, sump, or dry well is and was located;
  - b. When the disposal system, floor drain, sump, or dry well was installed;
  - c. Whether the disposal system, floor drain, sump, or dry well was connected to pipes;
  - d. Where such pipes are or were located, describing the location(s) and providing a map or diagram of such location(s);
  - e. When such pipes were installed;
  - f. How and when such pipes were replaced, repaired, or otherwise changed.

<u>Response</u>: A sanitary sewer system exists at the Site. It is Company policy, however, never to dispose of products down sinks or toilets.

14. Is the facility currently connected to a sewer line? If so, identify the sewage system, date of connection, and type of wastes discharged. If you are or at some time operated the facility without a sewer line connection, identify the method of waste disposal that you use or did use. Specifically, have you or are you using leach field(s), septic tank(s), or any other method of disposal at the facility. Provide copies of any sewer permits, including but not limited to industrial waste permits.

Response: As far as is known, the facility has always been connected to the L.A. sewer system. The only wastes discharged while Clyde Lee has been on the property are normal bathroom wastes. No septic tanks are known to be on Site.

- 15. Describe any acts or omissions of any persons, other than your employees, agents, or those persons with whom you had a contractual relationship, that may have caused the release or threat of release of hazardous substances at the facility and damages relating therefrom and identify such persons. In addition:
  - a. Describe all precautions that you took against foreseeable acts or omissions of any such third parties,

and the consequence that could foreseeably result from such acts or omissions;

b. Describe the care you exercised with respect to the hazardous substances found at the facility.

Response: Precautions regularly taken at the Clyde Lee Site include communication to employees, storage of chemicals within berms and the use of correct manifest procedures in the transporting of all hazardous wastes. Precautions against non-employee dumping include a fence and wall around the property and a gate which is locked after work hours.

The August 1990 soil report prepared by Golden State Analytical Services, Inc. (Exhibit F) reported TCA, chromium and petroleum hydrocarbon levels to be above normal limits. These tests were done in conjunction with an excavation ordered by the Los Angeles County Department of Health Services. As chromium and petroleum hydrocarbons are substances that are not used at the Site, Clyde Lee investigated the excavation and found that the bulk of the excavated soil had been mistakenly dug up from the adjoining property, where a stone and marble company currently operates. Past operators on the adjoining property included Satellite Truck Bodies and Cal-Wal Gypsum. Satellite Truck performed painting operations and welding and used various paint strippers and solvents. Clyde Lee personnel have observed Satellite employees spray painting in the open, without spray booths. These operations were also witnessed by an inspector from the South Coast Air Quality Management District. Clyde Lee believes Satellite was cited for this conduct.

Clyde Lee contends that the August 1990 analytical results do not accurately reflect the level of soil contamination, if any, on the Site. However, in order to determine if contamination exists on the Site and, if so, to what lateral and vertical extents, Clyde Lee is cooperating with the RWQCB to begin soil investigations on the Site. (See answer to Question 8.)

Additionally, a non-contractual third party which once occupied the property to the west of the Site may have caused contamination on the Site. At the time, the neighboring property was a builder's junkyard. During the early to mid 1980's, drums of chemicals and oils were stored in the junkyard directly on the dirt. Equipment was painted at the junkyard as well. Since the mid-1980's, new operators on the property have erected a building on it.

16. Identify all liability insurance policies held by Respondent from the time Respondent began operations at, assumed ownership of, or began leasing the facility (whichever

occurred earlier) until the present. In identifying such policies, state:

- a. The name and address of each insurer and of the insured;
- b. The amount of coverage under each policy;
- c. The commencement and expiration dates for each policy;

In addition, submit a complete copy of each policy.

Response: This response and supporting documents are produced under seal at Exhibit K. A claim of confidentiality is asserted for the material under CERCLA Sections 104(e)(7)(E) and (F), 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b).

17. Provide copies of all income tax returns including all schedules sent by you to the federal Internal Revenue Service in the last five years.

Response: This response and supporting documents are produced under seal at Exhibit L. A claim of confidentiality is asserted for the material under CERCLA Sections 104(e)(7)(E) and (F), 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b).

18. Provide all financial statements for the past five fiscal years, including but not limited to those filed with the federal Internal Revenue Service, the Franchise Tax Board, any other state taxing authorities, and the Securities and Exchange Commission.

Response: This response and supporting documents are produced under seal at Exhibit L. A claim of confidentiality is asserted for the material under CERCLA Sections 104(e)(7)(E) and (F), 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b).

19. Identify all of Respondent's current assets and liabilities.

<u>Response</u>: This response and supporting documents are produced under seal at Exhibit L. A claim of confidentiality is asserted for the material under CERCLA Sections 104(e)(7)(E) and (F), 42 U.S.C. §§ 9604(e)(7)(E) and (F), and 40 C.F.R. § 2.203(b).

20. Identify all subsidiaries and parent corporations of Respondent.

Response: None exist.

21. Provide a copy of the most current Articles of Incorporation and By-laws of Respondent.

<u>Response</u>: A copy of the most current Articles is enclosed at Exhibit M. By-laws cannot be located at present. When they are found, they will be sent to supplement this response.

22. Identify the managers and majority shareholders or partners of Respondent and the nature of their management duties or amount of shares held, respectively.

Neville Isaacson, President and Treasurer Juan Rodarthe, Vice President and Paint Supervisor. Marilyn Isaacson, Secretary

Neville Isaacson,



shareholder.

Standard Industrial Lease .....

AMERICAN INDUSTRIAL REAL ESTATE ASSOCIATION

get insurance policy "Successor Liability"

Parties. This Lease, dated, for reference MARK ZIV	rence purposes only,	MARCH	30		, 19 <b>79</b> is made by an
:	_ (herein called "Lessor"			O INC.	
		· · · · · · · · · · · · · · · · · · ·			(nerein called "Lessee"
. Premises. Lessor hereby leases to L					•
ertain real property situated in the Cou 12600 Saticoy St. No.	orth Hollywood	les , Calif	ornia.	State of California, commo	nly known as
nd described as <u>Portion of I</u>	ot 112, Tract				les.
				:	
aid real property including the land and	d all improvements ther	eon, is here	ein called "	ie Premises".	,
3. Term.					
3.1 Term. The term of this Lease	shall be for <u>F1Ve</u>	(5) Ye	ars.	Number 30 3004	
commencing on September 1st	. 1979		and ending	n August 30, 1984	
Rent. Lessee shall not advance the terminal Rent. Lessee shall pay to Lessor as response to the second state of the second secon	rent for the Premises	rwo Hun	dred F	fty Two Thousand	of each month of the term herec
essee shall pay Lessor (2000) or before September	1070		as rent for	The Honer of Begania	
on or before september	18t, 1979.		: :		
Rent for any period during the term he in lawful money of the United States twitting.					
5. Security Deposit, Lessee shall depo- Lessee's obligations hereunder. If Less- Lease, Lessor may use, apply or retain a other sum to which Lessor may becom- thereby. If Lessor so uses or applies ail- Lessor in an amount sufficient to restorate. Lessor shall not be required to le deposit, or so much thereof as has not to Lessee (or, at Lessor's option, to the lated the Premises.	ee fails to pay rent or all or any portion of sai e obligated by reason o or any portion of said re said deposit to the fu keep said deposit separ theretofore been appli	other chard deposit for Lessee's deposit, Lessee's deposit, Lessee's deposit, Lessee deposit d	ges due he or the payn lefault, or t essee shall hereinabove is general a or, shall be	reunder, or otherwise defaults with part of any rent or other charge in the compensate Lessor for any loss of within ten (10) days after written of stated and Lessee's failure to do so counts. If Lessee performs all of Leturned, without payment of inte	h respect to any provision of the default or for the payment of a produced or damage which Lessor may sufficient demand therefor deposit cash with on shall be a material breach of the Lessee's obligations hereunder; is prest or other increment for its understand or its understand o
5. Use.					
6.1 Use. The Premises shall be us	ed and occupied only f	or Any	<u>Legall</u>	Permitted Use.	
6.2 Compliance with Law, Lesse equirements in effect during the term of the Premises in any manner that was emises, which shall tend to disturb so 6.3 Condition of Premises. Less able zoning, municipal, county as	or any part of the terr vill tend to create was ch other tenants.	n hereof re te or a nui	gulating the sance or, if	use by Lessee of the Premises. Let there shall be more than one ten	ssee shall not use or permit the t ant of the building containing t

made any representation or warranty as to the suitability of the Premises for the conduct of Lessee's business.

Maintenance, Repairs and Alterations.

7.1 Lessor's Obligations. Subject to the provisions of Article 9 and except for demage caused by any negligent or intentional act or omission of Lessee. Lessee's agents, employees, or invities. Lessor at Lessor's expense, shall keep in good order, condition and repair the foundations, exterior walls and the exterior roof of the Premises. Lessor shall not, however, be obligated to paint such exterior, nor shall Lessor be required to maintain the interior surface of exterior walls, windows, doors or plate glass. Lessor shall have no obligation to make repairs under this Paragraph 7.1 until a reasonable time after receipt of written notice of the need for such repairs. Lessee expressly waives the benefits of any statute now or hereafter in effect which would otherwise afford Lessee the right to make repairs at Lessor's expense or to terminate this Lease because of Lessor's failure to keep the Premises in good.

7.2 Lessee's Obligations.

- (a) Subject to the provisions of Paragraph 9 and Paragraph 7.1, Lessee, at Lessee's expense, shall keep in good order condition and repair the Premises and every part thereof (regardless of whether the damaged portion of the Premises or the means of repairing the same are accessible to Lessee), including, without limiting the generality of the foregoing, all plumbing, heating, air conditioning, ventilating, electrical and lighting facilities and equipment within the Premises, fixtures, interior walls and interior surface of exterior walls, callings, windows, doors, plate glass, and skylights, located within the Premises and all sidewalks, landscaping, driveways, parking lots, fences and signs located in the areas which are adjacent to and included with
- (b) If Lessee fails to perform Lessee's obligations under this Paragraph 7.2, Lessor may at Lessor's option enter upon the Premises after 10 days' prior written notice to Lessee, and put the same in good order, condition and epair, and the cost thereof together with interest thereon at the rate of 10°, per annum shall be due and payable as additional rent to Lessor together with Lessee's next rental installment.
- (c) On the last day of the term hereof, or on any sooner termination, Lessee shall surrender the Premises to Lessor in the same condition as received, broom clean, ordinary wear and tear excepted. Lessee shall repair any darlage to the Premises occasioned by the removal of its trade fixtures, furnishings and equipment pursuant to Paragraph 7.3(c), which repair shall include the patching and filling of holes and repair of structural damage.

7.3 Alterations and Additions.

Alterations and Additions.

(a) Lessee shall not, without Lessor's prior written consent, make any literations, improvements, additions, or utility installations in, on or about the Premises, except for non-structural alterations not exceeding \$1,000 in coll. As used in this Paragraph 7.3, the term "utility installations" shall include bus ducting, power panels, fluorescent fixtures, space heaters, conduits and viring. As a condition to giving such consent. Lessor may require that Lessee agree to remove any such alterations, improvements, additions or utility instillations at the expiration of the term, and to restore the Premises to their prior condition. As a further condition to giving such consent, Lessor may require Lessee to provide Lessor, at Lessee's sole cost and expense, a lien und completion bond in an amount equal to one and one-half times the estimated lost of such improvements, to insure Lessor against any liability for mechanics and materialmen's liens and to insure completion of the work.

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- (b) \*Lessee shall pay, when due, all claims for labor or materials furnished or illeged to have been furnished to or for Lessee at or for use in the Premises, which claims are or may be secured by any mechanics' or materialmen's lien against the Premises or any interest therein. Lessee shall give Lessor not less than ten (10) days' notice prior to the commencement of any work in the Premises, and Lessor shall have the right to post notices of non-responsibility in or on the Premises as provided by law.
- (c) Unless Lessor requires their removal, as set forth in Paragraph 7.3(a) all alterations, improvements, additions and utility installations (whether or not such utility installations constitute trade fixtures of Lessee), which may be made on the Premises, shall become the property of Lessor and femain upon and be surrendered with the Premises at the expiration of the term. Notwithstanding the provisions of this Paragraph 7.3(c), Lessee's machinery and equipment, other than that which is affixed to the Premises so that it annot be removed without material damage to the Premises, shall remain the property of Lessee and may be removed by Lessee subject to the provisions of Paragraph 7.2(c).
- Elability Insurance. Lessee shall, at Lessee's expense, obtain and keep in force during the term of this Lease a policy of comprehensive public liability insurance insuring Lessor and Lessee against any liability arising out of the expense of the Premises and all areas appurtenant thereto. Such insurance shall be in an amount of not less than \$300.000 for injury to or death of one person in any one accident or occurrence and in an amount of not less than \$500.000 for injury to or death of one person in any one accident or occurrence. Such insurance shall further insure Lessor and Lessee against liability for property damage of at least \$50,000. The limits of said insurance shall not, however, limit the liability of Lessee hereunder. In the event that the Premises constitute a part of a larger property said insurance shall have a Lessor's Protective Liability endo/sement-attached thereto. If Lessee shall fail to procure and maintain said insurance Lessor may, but shall not be required to, procure and maintain the same, but at the expense of Lessee.
- 8.2 Property Insurance. Lessor shall obtain and keep in force during the term of this Lease a policy or policies of insurance covering loss or damage to the Premises, in the amount of the full replacement value thereof, providing protection against all perils included within the classification of fire, extended coverage, vanidalism, malicious mischief, special extended perils (all risk). Lessee shall pay during the term hereof, in addition to rent, the amount of any increase in premiums for the insurance required under this Paragraph 8.2 over and above such premiums paid by Lessor during the first full be the result of the nature of Lessee in which Lessor shall have maintained the insurance requirements of the holder of a mortgage or deed of trust covering the Premises, or increased valuation of the Premises. Lessee shall pay any such premium increases to Lessor within 30 days after receipt by Lessee of a copy of the premium statement or other satisfactory evidence of the amount due. If the insurance policies maintained hereunder cover other improvements in addition to the Premises, Lessor shall also deliver to Lessee a statement of the amount of such increase attributable to the Premises and showing in reasonable detail the manner in which such amount was computed. If the term of this Lesse shall not expire concurrently with the expiration of the period covered by such insurance, Lessee's liability for premium increases shall be prorated on an annual basis.
- 8.3 Insurance Policies. Insurance required hereunder shall be in companies rated AAA or better in "Best's Insurance Guide". Lessee shall deliver to Lessor copies of policies of liability insurance required under Paragraph 8.3 for certificates evidencing the existence and amounts of such insurance with loss payable clauses satisfactory to Lessor. No such policy shall be cancellable or subject to reduction of coverage or other modification except after ten (10) days' prior written notice to Lessor. Lessee shall, within ten (10) days prior to the expiration of such policies, furnish Lessor with renewals or "binders" thereof, or Lessor may order such insurance and charge the cost thereof to Lessee, which amount shall be payable by Lessee upon demand. Lessee shall not do or permit to be done anything which shall invalidate the insurance policies referred to in Paragraph 8.2:
- 8.4 Waiver of Subrogation. Lessee and Lessor each hereby waives any and all rights of recovery against the other, or against the officers, employees, agents and representatives of the other, for loss of or damage to such waiving party or its property or the property of others under its control, where such loss or damage is insured against under any insurance policy in force at the time of such loss or damage. Lessee and Lessor shall, upon obtaining the policies of insurance required hereunder, give notice to the insurance currier or carriers that the foregoing mutual waiver of subrogation is contained in this Lease.
- 8.5 Indemnity. Lessee shall indemnify and hold harmless Lessor from and against any and all claims arising from Lessee's use of the Premises, or from the conduct of Lessee's business or from any activity, work or things done, permitted or suffered by Lessee in or about the Premises or elsewhere and shall further indemnify and hold harmless Lessor from and against any and all claims arising from any breach or default in the performance of any obligation on Lessee's part to be performed under the terms of this Lease, or arising from any negligence of the Lessee, or any of Lessee's agents, contains, or employees, and from and against all costs, attorney's fees, expenses and liabilities incurred in the defense of any such claim or any action of actions arising brought thereon; and in case any action or proceeding be brought against Lessor by reason of any such claim, Lessee upon notice from shall defend the same at Lessee's expense by counsel satisfactory to Lessor. Lessee, as a material part of the consideration to Lessor, hereby assumes all risk of damage to property or injury to persons, in, upon or about the Premises arising from any cause and Lessee hereby waives all claims in respect thereof against Lessor.
- 8.6 Exemption of Lessor from Liability. Lessee hereby agrees that Lessor shall not be liable for injury to Lessee's business or any loss of income therefrom or for damage to the goods, wares, merchandise or other property of Lessee. Lessee's employees, invitees, customers, or any other person in or about the Premises, nor shall Lessor be liable for injury to the person of Lessee, Lessee's employees, agents or contractors, whether such damage or injury is caused by or results from fire, steam, electricity, gas, water or rain, or from the breakage, leakage, obstruction or other defects of pipes, sprinklers, appliances, plumbing, air conditioning or lighting fixtures, or from any other cause, whether the said damage or injury results from conditions arising upon the Premises or upon other portions of the building of which the Premises are a part, or from other sources or places, and regardless of whether the cause of such damage or injury or the means of repairing the same is inaccessible to Lessee. Lessor shall not be liable for any damages arising from any act or neglect of any other tenant, if any, of the building in which the Premises are located.

# 9. Damage or Destruction.

- 9.1 Partial Damage—Insured. Subject to the provisions of Paragraph 9.4, if the Premises are damaged and such damage was caused by a casualty covered under an insurance policy required to be maintained pursuant to Paragraph 8.2, Lessor shall at Lessor's expense repair such damage as soon as reasonably possible and this Lease shall continue in full force and effect.
- 9.2 Partial Damage—Uninsured. Subject to the provisions of Paragraph 9.4, if at any time during the term hereof the Premises are damaged, except by a negligent or willful act of Lessee, and such damage was caused by a casualty not covered under an insurance policy required to be maintained by Lessor pursuant to Paragraph 8.2, Lessor may at Lessor's option either (i) repair such damage as soon as reasonably possible at Lessor's expense, in which event this Lease shall continue in full force and effect, or (ii) give written notice to Lessee within thirty (30) days after the date of the occurrence of such damage. In the event Lessor elects to give such notice of Lessor's intention to cancel and terminate this Lease, Lessee shall have the right within ten (10) days after the receipt of such notice to give written notice to Lessor of Lessee's intention to repair such damage at Lessee's expense, without reimbursement from Lessor, in which event this Lease, shall continue in full force and effect, and Lessee shall proceed to make such repairs as soon as reasonably possible. If Lessee does not give such notice within such 10-day period this Lease shall be cancelled and terminated as of the date or the occurrence of such damage.
- Total Destruction. If at any time during the term hereof the Premises are totally destroyed from any cause whether or not covered by the insurance required to be maintained by Lessor pursuant to Paragraph 8.2 (including any total destruction required by any authorized public authority) this Lease shall automatically terminate as of the date of such total destruction.
- 9.4 Damage Near End of Term. If the Premises are partially destroyed or damaged during the last six months of the term of this Lease, Lessor may at Lessor's option cancel and terminate this Lease as of the date of occurrence of such damage by giving written notice to Lessee of Lessor's election to do so within 30 days after the date of occurrence of such damage.

# 9.5 Abatement of Rent; Lessee's Remedies.

- (a) If the Premises are partially destroyed or damaged and Lessor or Lessee repairs or restores them pursuant to the provisions of this Article, the rent payable hereunder for the period during which such damage, repair or restoration continues shall be abated in proportion to the degree to which Lessee's use of the Premises is impaired. Except for abatement of rent, if any, Lessee's hall have no claim against Lessor for any damage suffered by reason of the premises is impaired. Except for abatement of rent, if any, Lessee's hall have no claim against Lessor for any damage suffered by reason of the premises is impaired.
- (b) If Lessor shall be obligated to repair or restore the Premises under the provisions of this Paragraph 9 and shall not commence such repair or restoration within 90 days after such obligations shall accrue, Lessee may at Lesse's option cancel and terminate this Lease by giving Lessor written notice of Lesse's election to do so at any time prior to the commencement of such repair or restoration. In such event this Lease shall terminate as of the date of such notice. Any abatement in rent shall be computed as provided in Paragraph 9.5(a).
- 9.6 Termination—Advance Payments. Upon termination of this Lease pursuant to this Paragraph 9, an equitable adjustment shall be made concerning advance rent and any advance payments made by Lesser to Lessor. Lessor shall, in addition, return to Lessee so much of Lessee's security, deposit as has not theretofore been applied by Lessor.

# 10. Real Property Taxes.

- 10.1 Payment of Tax Incresse. Lessor shall pay all real property taxes applicable to the Premises; provided, however, that Lessee shall pay, in addition to rent, the amount, if any, by which real property taxes applicable to the Premises increase over the fiscal tax year 19 7.8 at 79. Such payment shall be made by Lessee within thirty (30) days after receipt of Lessor's written statement setting forth the amount of such increase and the reasonable computation thereof. If the term of this Lesse shall not expire concurrently with the expiration of the tax fiscal year, Lessee's liability for increased taxes for the last partial lesse year shall be prorated on an annual basis.
- 10.2 Definition of "Real Property" Tax. As used herein, the term "real property tax" shall include any form of assessment, license fee, commercial rental tax, levy, penalty, or tax (other than inheritance or estate taxes), imposed by any authority having the direct or indirect power to tax, including any city, county, state or federal government, or any school, agricultural, lighting, drainage or other improvement district thereof, as against any legal or equitable interest of Lessor in the Premises or in the real property of which the Premises are a part, as against Lessor's right to rent or other income therefrom, or as against Lessor's business of leasing the Premises.
- 10.3 Joint Assessment. If the Premises are not separately assessed, Lessee's liability shall be an equitable proportion of the real property taxes for all of the land and improvements included within the tax parcel assessed, such proportion to be determined by Lessor from the respective valuations assigned in the assessor's work sheets or such other information as may be reasonably available. Lessor's reasonable determination thereof, in good faith, shall be conclusive.

# 10.4 Personal Property Taxes.

- (a) Lessee shall pay prior to delinquency all taxes assessed against and levied upon tride fixtures, furnishings, equipment and all other personal property of Lessee contained in the Premises or elsewhere. When possible, ressee shall cause said trade fixtures, furnishings, equipment and all other personal property to be assessed and billed separately from the real property of Lessor.
- (b) If any of Lessee's said personal property shall be assessed with Less it's real property. Lessee shall pay Lessor the tuxes attributable to Lessee within 10 days after receipt of a written statement setting forth the taxes applicable to Lessee's property.

1 the dilities. Lessee shall pay for all water, gas, heat, light, power, telephone and other utilities and services supplied to the services are not separately metered to Lessee, Lessee shall pay a reasonable proportion to be determined by Lessor of all sharps jointly metered with other premises.

12. Assignment and Subletting.

12.1 Lessor's Consent Required. Lessee shall not voluntarily or by operation of law assign, transfer, mortgage, sublet, or otherwise transfer or encumber all or any part of Lessee's interest in this Lease or in the Premises, without Lessor's prior written consent, which Lessor shall not unreasonably withhold. Any attempted assignment, transfer, mortgage, encumbrance or subletting without such consent shall be void, and shall constitute a breach of this Lease.

No Release of Lessee. Regardless of Lessor's consent, no subletting or assignment shall release Lessee of Lessee's obligation or alter the print liability of Lessee to pay the rent and to perform all other obligations to be performed by Lessee hereunder. The acceptance of rent by Lessor from any other person shall not be deemed to be a waiver by Lessor of any provision he leof. Consent to one assignment or subletting shall not be deemed consent to any subsequent assignment or subletting.

12.3 Attorney's Fees. In the event that Lessor shall consent to a sublease or assignment under Paragraph 12.1, Lessee shall pay Lessor's reasonable attorneys' fees not to exceed \$100 incurred in connection with giving such consent.

# 13. Defaults; Remedies.

- 13.1 Defaults. The occurrence of any one or more of the following events shall constitute a material default and breach of this Lease by Lessee:
  - (a) The vacating or abandonment of the Premises by Lessee.
- (b) The failure by Lessee to make any payment of rent or any other payment required to be made by Lessee hereunder, as and when due, where such failure shall continue for a period of three days after written notice thereof from Lessor to Lessee.
- (c) The failure by Lessee to observe or perform any of the covenants, conditions or provisions of this Lease to be observed or performed by Lessee, other than described in paragraph (b) above, where such failure shall continue for a period of 30 days after written notice hereof from Lessor to Lessee; provided, however, that if the nature of Lessee's default is such that more than 30 days are reasonably required for its cure, then Lessee shall not be deemed to be in default if Lessee commenced such cure within said 30-day period and thereafter diligently prosecutes such cure to completion.
- (d) (i) The making by Lessee of any general assignment, or general arrangement for the benefit of creditors; (ii) the filling by or against Lessee of a petition to have Lessee adjudged a bankrupt or a petition for reorganization or arrangement under any law relating to bankruptcy (unless, in the case of a petition filed against Lessee, the same is dismissed within 60 days; (iii) the appointment of a trustee or receiver to take possession of substantially all of Lessee's assets located at the Premises or of Lessee's interest in this Lease, where possession is not restored to Lessee within 30 days; or (iv) the attachment, execution or other judicial seizure of substantially all of Lessee's assets located at the Premises or of Lessee's interest in this Lease, where such seizure is not discharged within 30 days.
- 13.2 Remedies. In the event of any such material default or breach by Lesser may at any time thereafter, with or without notice or demand and without limiting Lessor in the exercise of any right or remedy which Lesser may have by reason of such default or breach:
- (a) Terminate Lessee's right to possession of the Premises by any fawful means, in which case this Lease shall terminate and Lessee shall immediately surrender possession of the Premises to Lessor. In such event Lessor shall be entitled to recover from Lessee all damages incurred by Lessor by reason of Lessee's default including, but not limited to, the cost of recovering possession of the Premises; expenses of reletting, including necessary renovation and alteration of the Premises, reasonable attorney's fees, and any real estate commission actually paid; the worth at the time of award by the court having jurisdiction thereof of the amount by which the unpaid rent for the balance of the term after the time of such award exceeds the amount of such rental loss for the same period that Lessee proves could be reasonably avoided: that portion of the leasing commission paid by Lessor pursuant to Article 15 applicable to the unexpired term of this Lease. Unpaid installments of rent or other sums shall bear interest from the date due at the rate of 10% per annum. In the event Lessee shall have abandoned the Premises, Lessor shall have the option of (i) retaking possession of the Premises and recovering from Lessee the amount specified in this Paragraph 13.2(a), or (ii) proceeding under Paragraph 13.2(b).
  - (b) Maintain Lessee's right to possession in which case this Lease shall continue in effect whether or not Lessee shall have abandoned the ses. In such event Lessor shall be entitled to enforce all of Lessor's rights and remedies under this Lease, including the right to recover the rent as it es due hereunder.
    - (c) Pursue any other remedy now or hereafter available to Lessor under the laws or judicial decisions of the State of California.
- 13.3 Default by Lessor, Lessor shall not be in default unless Lessor fails to perform obligations required of Lessor within a reasonable time, but in no event later than thirty (30) days after written notice by Lessee to Lessor and to the holder of any first mortgage or deed of trust covering the Premises whose name and address shall have theretofore been furnished to Lessee in writing, specifying wherein Lessor has failed to perform such obligation; provided, however, that if the nature of Lessor's obligation is such that more than thirty (30) days are required for performance then Lessor shall not be in default if Lessor commences performance within such 30-day period and thereafter diligently prosecutes the same to completion.
- 13.4 Late Charges. Lessee hereby acknowledges that late payment by Lessee to Lessor of rent and other sums due hereunder will cause Lessor to incur costs not contemplated by this Lease, the exact amount of which will be extremely difficult to ascertain. Such costs include, but are not limited to, processing and accounting charges, and late charges which may be imposed on Lessor by the terms of any mortgage or trust deed covering the Premises. Accordingly, if any installment of rent or any other sum due from Lessee shall not be received by Lessor or Lessor's designee within ten (10) days after such amount shall be due. Lessee shall pay to Lessor a late charge equal to 10% of such overdue amount. The parties hereby agree that such late charge represents a fair and reasonable estimate of the costs Lessor will incur by reason of late payment by Lessee. Acceptance of such late charge by Lessor shall in no event constitute a waiver of Lessee's default with respect to such overdue amount, nor prevent Lessor from exercising any of the other rights and remedies granted hereunder.
- 14. Condemnation. If the Premises or any portion thereof are taken under the power of eminent domain, or sold under the threat of the exercise of said power (all of which are herein called "condemnation"), this Lease shall terminate as to the part so taken as of the date the condemning authority takes title or possession, whichever first occurs. If more than 10% of the floor area of the improvements on the premises, or more than 25% of the land area of the Premises which is not occupied by any improvements, is taken by condemnation, Lessee may, at Lessee's option, to be exercised in writing only within ten (10) days after Lessor shall have given Lessee written notice of such taking (or in the absence of such notice, within ten (10) days after the condemning authority shall have taken possession) terminate this Lease as of the date the condemning authority takes such possession. If Lessee does not terminate this Lease in accordance with the foregoing, this Lease shall remain in full force and effect as to the portion of the Premises remaining, except that the rent shall be reduced in the proportion that the floor area taken bears to the total floor area of the building situated on the Premises. Any award for the taking of all or any part of the Premises under the power of eminent domain or any payment made under threat of the exercise of such power shall be the property of Lessor, whether such award shall be made as compensation for diminution in value of the leasehold or for the taking of the fee, or severance damages; provided, however, that Lessee shall be entitled to any award for loss of or damage to Lessee's trade fixtures and removable personal apperty. In the event that this Lesse is not terminated by reason of such condemnation, Lessor shall, to the extent of severance damages; received by:

  Lessor in connection with such condemnation, repair any damage to the Premises caused by such condemnation except to the extent that Lessee has been reimbursed therefor by the condemning authority. Lessee shall pay
- 15. Broker's Fee. Upon execution of this Lease by both parties, Lessor shall pay to \_

# 16. General Provisions.

# 16.1 Estoppel Certificate.

- (a) Lessee shall at any time upon not less than ten (10) days' prior written notice from Lessor execute, acknowledge and deliver to Lessor a statement in writing (i) curtifying that this Lesse is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying that this Lesse, as so modified, is in full force and effect) and the date to which the rent and other charges are paid in advance, if any, and (ii) acknowledging that there are not, to Lessee's knowledge, any undured defaults on the part of Lessor hereunder, or specifying such defaults if any are claimed. Any such statement may be conclusively relied upon by any prospective purchaser or encumbrancer of the Premises.
- (b) Lessee's failure to deliver such statement within such time shall be conclusive upon Lessee (i) that this Lease is in full force and effective without modification except as may be represented by Lessor, (ii) that there are no uncured defaults in Lessor's performance, and (iii) that not more than one month's rent has been paid in advance.
- (c) If Lessor desires to finance or refinance the Premises, or any part thereof, Lessee hereby agrees to deliver to any lender designated by Lessor such financial statements of Lessee as may be reasonably required by such lender. Such statements shall include the past three years' financial statements of Lessee. All such financial statements shall be received by Lessor in confidence and shall be used only for the purposes herein set forth.
- 16.2 Lessor's Liability. The term "Lessor" as used herein shall mean only the owner or owners at the time in question of the fee title or a lesses's interest in a ground lease of the Premises, and except as expressly provided in Paragraph 15, in the event of any transfer of such title or interest, Lessor herein named (and in case of any subsequent transfers the then grantor) shall be relieved from and after the date of such transfer of all liability as respects. Lessor's obligations thereafter to be performed, provided that any funds in the hands of Lessor or the then grantor at the time of such transfer, in which Lessee has an interest, shall be delivered to the grantee. The obligations contained in this Lease to be performed by Lessor shall, subject as aforesaid, be binding on Lessor's successors and assigns, only during their respective periods of ownership.
- 16.3. Saverability. The invalidity of any provision of this Lease as determined by a court of competent jurisdiction, shall in no way affect the validity of any other provision hereof.
- 16.4 Interest on Past-due Obligations. Except as expressly herein provided, any amount due to Lessor not paid when due shall bear interest at 10% per annum from the date due. Payment of such interest shall not excuse or cure any default by Lessee under this Lease.
  - 16.5 Time of Essence. Time is of the essence.
  - 16.6 Captions. Article and paragraph cuptions are not a part hereof
- 16.7 Incorporation of Prior Agreements. Amendments. This Lease contains all agreements of the parties with respect to any matter mentioned herein. No prior agreement or understanding pintaining to any such matter shall be effective. This Lease may be modified in writing only, signed by the parties in interest at the time of the modification.

- 16.8 Notices. Any notice required or permitted to be given hereuniter shall be in writing and may be addressed to Lessor and Lessee respectively at the addresses set forth after their signatures at the end of this Lease.
- Waivers. No waiver by Lessor of any provision hereof shall be deemed a waiver of any other provision hereof or of any subsequent breach in Lessee of the same or any other provision. Lessor's consent to or approval or any act shall not be deemed to render unnecessary the obtaining of Lessoe consent to or approval of any subsequent act by Lessee. The acceptance of rent hereunder by Lessor shall not be a waiver of any preceding breach by Lessee of any provision hereof, other than the failure of Lessee to pay the particular rent so accepted, regardless of Lessor's knowledge of such preciding breach at the time of acceptance of such rent.
- 16.10 Recording. Lessee shall not record this Lease without Lessor's prior written consent, and such recordation shall, at the option of Lessos constitute a non-curable default of Lessee hereunder. Either party shall, upor request of the other, execute, acknowledge and deliver to the other a "short memorandum of this Lease for recording purposes
- 16.11 Holding Over, If Lessee remains in possession of the Premises or any part thereof after the expiration of the term hereof without the expression of Lessor, such occupancy shall be a tenancy from month to month at a rental in the amount of the last monthly rental plus all other charges payable hereunder, and upon all the terms hereof applicable to a month-to-month tenancy.
- 16.12 Cumulative Remedies. No remedy or election hereunder shall be deemed exclusive but shall, wherever possible, be cumulative with all other edies at law or in equity
  - 16.13 Covenants and Conditions. Each provision of this Lease performable by Lessee shall be deemed both a covenant and a condition.
- Binding Effect; Choice of Law. Subject to any provisions hereof restricting assignment or subjecting by Lessee and subject to the provision of Paragraph 16.2, this Lease shall bind the parties, their personal representatives, successors and assigns. This Lease shall be governed by the laws of the
- 16.15 Subordination
  (a) This Lease, This Lease, at Lessor's option, shall be subordinate to any ground lease, mortgage, deed of trust, or any other hypothecation for a now or hereafter placed upon the real property of which the Premises are a part and to any and all advances made on the security thereof and to at renewals, modifications, consolidations, replacements and extensions thereof. Notwithstanding such subordination, Lessee's right to quiet possessions. the Premises shall not be disturbed if Lessee is not in default and so long at Lessee shall pay the rent and observe and perform all of the provisions of the Lease, unless this Lease is otherwise terminated pursuant to its terms. If any mortgagee, trustee or ground lessor shall elect to have this Lease prior to the lien of its mortgage, deed of trust or ground lease, and shall give written notice thereof to Lessee, this Lease shall be deemed prior to such mortgage, deed of trust, or ground lease, whether this Lease is dated prior or subsequent to the date of said mortgage, deed of trust or ground lease or the date recording thereof.
- **(b)** Lessee agrees to execute any documents required to effectuate such subordination or to make this Lesse prior to the lien of any mortga deed of trust or ground lease, as the case may be, and failing to do so within ten (10) days after written demand, does hereby make, constitute a irrevocably appoint Lessor as Lessee's attorney in fact and in Lessee's name, place and stead, to do so.
- 16.16 Attorney's Fees, If either party or the broker named herein brings an action to enforce the terms hereof or declare rights hereun prevailing party in any such action, on trial or appeal, shall be entitled to his reasonable attorney's fees to be paid by the losing party as fixed by the court. The provisions of this paragraph shall inure to the benefit of the broker named herein who seeks to enforce a right hereunder.
- 16.17 Lessor's Access. Lessor and Lessor's agents shall have the right to enter the Premises at reasonable times for the purpose same, showing the same to prospective purchasers, or lenders, and making such alterations, repairs, improvements or additions to the Premises or to building of which they are a part as Lessor may deem necessary or desirable. Lessor may at any time place on or about the Premises any ordinary. signs and Lessor may at any time during the last 120 days of the term hereof place on or about the Premises any ordinary "For Lease" signs without rebate of rent or liability to Less
- 16.18 Signs and Auctions. Lessee shall not place any sign upon the Premises or conduct any auction thereon without Lessor's prior writing consent.
- 16/19 Merger. The voluntary or other surrender of this Lease by Lossee, or a mutual cancellation thereof, shall not work a merger, and shall say option of Lessor, terminate all or any existing subtenancies or may, at the option of Lessor, operate as an assignment to Lessor of any or all of the option of Lessor. subtenancies.
- 16.20 Corporate Authority, If Lessee is a corporation, each individual executing this Lesse on behalf of said corporation represents and waste that he is duly authorized to execute and deliver this Lesse on behalf of said corporation, in accordance with a duly adopted resolution of the Board Directors of said corporation or in accordance with the Bylaws of said corporation, and that this Lesse is binding upon said corporation in accordance. with its terms. If Lessee is a corporation Lessee shall, within thirty (CO) days after execution of this Lease, deliver to Lessor a certified copy resolution of the Board of Directors of said corporation authorizing or ratifying the execution of this Lease.

The parties hereto have executed this Lease at the place and on the dates specified immediately adjacent to their respective signatures.

e has been filled in it has been prepared for submission to your attorney for his approval. No repre the legal sufficiency, legal effect, or recommendation is made by the real estate broker or its agents or employees as to consequences of this Lease or the transaction relating thereto.

LOS ANGELES.	MARK ZIV	
on NARCH 30, 1979	By MARK ZIV	
Address	BV	
	"LESSOR"	
Executed at Los Angeles, California	SPEATCO INC.	
April 27, 1979	By Streed little	e e
Address 16650 Schoenborn Street	LEONARD W. MOORE.	PRESIDENT:
Sepulveda, California 91343	"LESSEE"	; ·.

EXHIBIT B

# Standard Industrial Lease

# AMERICAN INDUSTRIAL REAL ESTATE ASSOCIATION



	r reference purposes only, MAY 30.	, 19 <u>84</u> , is made by and
hetween	MARK ZIV	
	(herein called "Lessor") and SPRAYCO_INCA	CALIFORNIA CORPORATION.
	· · · · · · · · · · · · · · · · · · ·	(herein called "Lessee").
9 Bandara La Laborata Labora	•	
	s to Lessee and Lessee leases from Lessor for the term, at the rental, a	
	THE COUNTY OF LOS ANGELES. State of Ca	alifornia, commonly known as
	DY ST. NORTH HOLLYWOOD, CALIFORNIA.	
	N OF LOT 112 TRACT NO. 1212 IN THE CITY O	
	The state of the s	
	en e	
<u></u>		
	No. 10 Company of the	
	nd and all improvements thereon, is herein called "the Premises".	
3. Term.		
3.1 Term The term of this	Lease shall be for 64 MONTHS 15 Years, and 4 Mo	onthe )
	BER IST 1984 and ending on DECEMBE	
unless sooner terminated pursuant		-N
omess sooner terminated pursuant	to any provision hereof,	•
essee on said date, Lessor shall ne reunder or extend the term here	ent. Notwithstanding said commencement date, if for any reason Li not be subject to any liability therefor, nor shall such failure affect th reof, but in such case Lessee shall not be obligated to pay rent until	e validity of this Lease or the obligations of Lessee possession of the Premises is tendered to Lessee:
essee on said date, Lessor shall ne reunder or extend the term here provided, however, that if Lessor s Lessee's option, by notice in writiobligations hereunder. If Lessee of occupancy shall not advance the terms.	not be subject to any liability therefor, nor shall such failure affect thereof, but in such case Lessee shall not be obligated to pay rent until shall not have delivered possession of the Premises within sixty (60) ding to Lessor within ten (10) days thereafter, caucel this Lease, in voccupies the Premises prior to said commencement date, such occupiermination date, and Lessee shall pay rent for such period at the initial	e validity of this Lease or the obligations of Lessee possession of the Premises is tendered to Lessee; ays from said commencement date, Lessee may, at which event the parties shall be discharged from all ancy shall be subject to all provisions hereof, such all monthly rates set forth below.
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- requirements in effect during the term or any part of the term hereof regulating the use by Lessee of the Premises. Lessee shall not use or permit the use of the Premises in any manner that will tend to create waste or a nuisance or, if there shall be more than one tenant of the building containing the Premises, which shall tend to disturb such other tenants.
- 6.3 Condition of Premises. Lessee hereby accepts the Premises in their condition existing as of the date of the execution hereof, subject to all inplicable zoning, municipal, county and state laws, ordinances and regulations governing and regulating the use of the Premises, and accepts this Lease subject thereto and to all matters disclosed thereby and by any exhibits attached hereto. Lessee acknowledges that neither Lessor nor Lessor's agent has made any representation or warranty as to the suitability of the Premises for the conduct of Lessee's business.

# 7. Maintenance, Repairs and Alterations.

7.1 Lessor's Obligations. Subject to the provisions of Article 9 and except for damage caused by any negligent or intentional act or omission of Lessee, Lessor's expense, shall keep in good order, condition and repair the foundations, exterior walls and the exterior roof of the Premises. Lessor shall not, however, be obligated to paint such exterior; nor shall Lessor be required to maintain the interior surface of exterior walls, windows, doors or place glass. Lessor shall have no obligation to make repairs under this Paragraph 7.1 until a reasonable time after receipt of written notice of the need for such repairs. Lessee expressly waives the benefits of any statute now or hereafter in effect which would otherwise afford Lessee the right to make repairs at Lessor's expense or to terminate this Lease because of Lessor's failure to keep the Premises in good order, condition and repair. order, condition and repair.

# 7.2 Lessee's Obligations.

- (a) Subject to the provisions of Paragraph 9 and Paragraph 7.1, Lessee, at Lessee's expense, shall keep in good order condition and repair the Premises and every part thereof (regardless of whether the damaged portion of the Premises or the means of repairing the same are accessible to Lessee), including, without limiting the generality of the foregoing, all plumbing, heating, air conditioning, ventilating, electrical and lighting facilities and equipment within the Premises, fixtures, interior walls and interior surface of exterior walls, ceilings, windows, doors, plate glass, and skylights, located within the Premises and all sidewalks, landscaping, driveways, parking lots, fences and signs located in the areas which are adjacent to and included with the Premises.
- (b) If Lessee fails to perform Lessee's obligations under this Paragraph 7.2, Lessor may at Lessor's option enter upon the Premises after 10 plays' prior written notice to Lessee, and put the same in good order, condition and repair, and the cost thereof together with interest thereon at the rate of 10% per annum shall be due and payable as additional rent to Lessor together with Lessee's next rental installment.
- (c) On the last day of the term hereof, or on any sooner termination. Lessee shall surrender the Premises to Lessor in the same condition as received, broom clean, ordinary wear and tear excepted. Lessee shall repair any damage to the Premises occasioned by the removal of its trade fixtures, furnishings and equipment pursuant to Paragraph 7.3(c), which repair shall include the patching and filling of holes and repair of structural damage.

# 7.3 Alterations and Additions.

American Industrial II, at 5 years Assertation 19.15

(a) Lessee shall not, without Lessor's prior written consent, make any alterations, improvements, additions, or utility installations in, on or about the Premises, except for non-structural alterations not exceeding \$1,000 in cost. As used in this Paragraph 7.3, the term "utility installations" shall include bus ducting, power panels, fluorescent fixtures, space heaters, conduits and wiring. As a condition to giving such consent, Lessor may require that Lessee agree to remove any such alterations, improvements, additions or utility installations at the expiration of the term, and to restore the Premises to their prior condition. As a further condition to giving such consent, Lessor may require Lessee to provide Lessor, at Lessee's sole cost and expense, a lien and completion bond in an amount equal to one and one half times the estimated cost of such improvements, to insure Lessor against any liability for mechanics' and materialmen's liens and to insure completion of the work. mechanics' and materialmen's liens and to insure completion of the work.

(b) Lessee shall pay, when due, all claims for labor or materials furnished or alleged to have been furnished to or for Lessee at or for use in the Premises, which claims are or may be secured by any mechanics' or materialmen's lien against the Premises or any interest therein. Lessee shall give Lessor not less than ten (10) days' notice prior to the commencement of any work in the Premises, and Lessor shall have the right to post notices of non-responsibility in or on the Premises as provided by law.

(c) Unless Lessor requires their removal, as set forth in Paragraph 7.3(a), all alterations, improvements, additions and utility installations (whether or not such utility installations constitute trade fixtures of Lessee), which may be made on the Premises, shall become the property of Lessor and remain upon and be surrendered with the Premises at the expiration of the term. Notwithstanding the provisions of this Paragraph 7.3(c), Lessee's machinery and equipment, other than that which is affixed to the Premises so that it cannot be removed without material damage to the Premises, shall the property of Lessee and may be removed by Lessee subject to the provisions of Paragraph 7.2(c).

surance; Indemnity.

- 8.1 Liability Insurance. Lessee shall, at Lessee's expense, obtain and keep in force during the term of this Lease a policy of comprehensive public liability insurance insuring Lessor and Lessee against any liability arising out of the ownership, use, occupancy or maintenance of the Premises and all areas appurtenant thereto. Such insurance shall be in an amount of not less than \$300,000 for injury to or death of one person in any one accident or occurrence and in an amount of not less than \$500,000 for injury to or death of more than one person in any one accident or occurrence. Such insurance shall further insure Lessor and Lessee against liability for property damage of at least \$50,000. The limits of said insurance shall not, however, limit the liability of Lessee hereunder. In the event that the Premises constitute a part of a larger property said insurance shall have a Lessor's Protective Liability endorsement attached thereto. If Lessee shall fail to procure and maintain the same, but at the expense of Lessee.
- 8.2 Property Insurance. Lessor shall obtain and keep in force during the term of this Lease a policy or policies of insurance covering loss or damage to the Premises, in the amount of the full replacement value thereof, providing projection against all perils included within the classification of fire, extended coverage, vandalism, malicious mischief, special extended perils (all risk). Lessee shall pay during the term hereof, in addition to rent, the amount of any increase in premiums for the insurance required under this Paragraph 8.2 over and above such premiums paid by Lessor during the first full year of the term of this Lease in which Lessor shall have maintained the insurance required under this Paragraph 8.2, whether such premium increases shall be the result of the nature of Lessee's occupancy, any act or omission of Lessee, requirements of the holder of a mortgage or deed of trust covering the Premises, or increased valuation of the Premises. Lessee shall pay any such premium increases to Lessor within 30 days after receipt by Lessee of a copy of the premium statement or other satisfactory evidence of the amount due. If the insurance policies maintained hereunder cover other improvements in addition to the Premises, Lessor shall also deliver to Lessee a statement of the amount of such increase attributable to the Premises and showing in reasonable detail the manner in which such amount was computed. If the term of this Lease shall not expire concurrently with the expiration of the period covered by such insurance, Lessee's liability for premium increases shall be prorated on an annual basis.
- 8.3 Insurance Policies. Insurance required hereunder shall be in companies rated AAA or better in "Best's Insurance Guide". Lessee shall deliver to Lessor copies of policies of liability insurance required under Paragraph 8.1 or certificates evidencing the existence and amounts of such insurance with loss payable clauses satisfactory to Lessor. No such policy shall be cancellable or subject to reduction of coverage or other modification except after ten (10) days' prior written notice to Lessor. Lessee shall, within ten (10) days prior to the expiration of such policies, furnish Lessor with renewals or "binders" thereof, or Lessor may order such insurance and charge the cost thereof to Lessee, which amount shall be payable by Lessee upon demand. Lessee shall not do or permit to be done anything which shall invalidate the insurance policies referred to in Paragraph 8.2.
- 8.4 Waiver of Subrogation. Lessee and Lessor each hereby waives any and ull rights of recovery against the other, or against the officers, employees, agents and representatives of the other, for loss of or damage to such waiving party or its property or the property of others under its control, where such loss or damage is insured against under any insurance policy in force at the time of such loss or damage. Lessee and Lessor shall, upon obtaining the policies of insurance required hereunder, give notice to the insurance carrier or carriers that the foregoing mutual waiver of subrogation is contained in this Lease.
- 8.5 Indemnity. Lessee shall indemnify and hold harmless Lessor from and against any and all claims arising from Lessee's use of the Premises, or from the conduct of Lessee's business or from any activity, work or things done, permitted or suffered by Lessee in or about the Premises or elsewhere and shall further indemnify and hold harmless Lessor from and against any and all claims arising from any breach or default in the performance of any obligation on Lessee's part to be performed under the terms of this Lease, or arising from any negligence of the Lessee, or any of Lessee's agents, controlly to the performance of the Lessee, or any of Lessee's agents, or employees, and from and against all costs, attorney's fees, expenses and liabilities incurred in the defense of any such claim or any action ceeding brought thereon; and in case any action or proceeding be brought against Lessor by reason of any such claim, Lessee upon notice from Lesser shall defend the same at Lessee's expense by counsel satisfactory to Lessor. Lessee, as a material part of the consideration to Lessor, hereby assumes all risk of damage to property or injury to persons, in, upon or about the Premises arising from any cause and Lessee hereby waives all claims in respect thereof against Lessor.
- 8.6 Exemption of Lessor from Liability. Lessee hereby agrees that Lessor shall not be liable for injury to Lessee's business or any loss of income therefrom or for damage to the goods, wares, merchandise or other property of Lessee, Lessee's employees, invitees, customers, or any other person in or about the Premises, nor shall Lessor be liable for injury to the person of Lessee, Lessee's employees, agents or contractors, whether such damage or injury is caused by or results from fire, steam, electricity, gas, water or rain, or from the breakage, leakage, obstruction or other defects of pipes, sprinklers, appliances, plumbing, air conditioning or lighting fixtures, or from any other cause, whether the said damage or injury results from conditions arising upon the Premises or upon other portions of the building of which the Premises are a part, or from other sources or places, and regardless of whether the cause of such damage or injury or the means of repairing the same is inaccessible to Lessee. Lessor shall not be liable for any damages arising from any act or neglect of any other tenant, if any, of the building in which the Premises are located.

# 9. Damage or Destruction.

- 9.1 Partial Damage—Insured. Subject to the provisions of Paragraph 9.4, if the Premises are damaged and such damage was caused by a casualty covered under an insurance policy required to be maintained pursuant to Paragraph 8.2, Lessor shall at Lessor's expense repair such damage as soon as reasonably possible and this Lease shall continue in full force and effect.
- 9.2 Partial Damage—Uninsured. Subject to the provisions of Paragraph 9.4, if at any time during the term hereof the Premises are damaged, except by a negligent or willful act of Lessee, and such damage was caused by a casualty not covered under an insurance policy required to be maintained by Lessor pursuant to Paragraph 8.2, Lessor may at Lessor's option either (i) repair such damage as soon as reasonably possible at Lessor's expense, in which event this Lease shall continue in full force and effect, or (ii) give written notice to Lessee within thirty (30) days after the date of the occurrence of such damage of Lessor's intention to cancel and terminate this Lease as of the date of the occurrence of such damage. In the event Lessor elects to give such notice of Lessor's intention to cancel and terminate this Lease, Lessee shall have the right within ten (10) days after the receipt of such notice to give written notice to Lessor of Lessor's intention to repair such damage at Lessee's expense, without reimbursement from Lessor, in which event this Lease shall continue in full force and effect, and Lessee shall proceed to make such repairs as soon as reasonably possible. If Lessee does not give such notice within such 10-day period this Lease shall be cancelled and terminated as of the date of the occurrence of such damage.

  9.3 Total Destruction. If at any time during the term hereof the Premises are cotally destroyed from any cause whether or not covered by the
- 9.3 Total Destruction, If at any time during the term hereof the Premises are cotally destroyed from any cause whether or not covered by the insurance required to be maintained by Lessor pursuant to Paragraph 8.2 (including any total destruction required by any authorized public authority) this Lease shall automatically terminate as of the date of such total destruction.
- 9.4 Damage Near End of Term. If the Premises are partially destroyed or damage: I during the last six months of the term of this Lease, Lessor may at Lessor's option cancel and terminate this Lease as of the date of occurrence of such damage by giving written notice to Lessee of Lessor's election to do so within 30 days after the date of occurrence of such damage.

# 9.5 Abatement of Rent; Lessee's Remedies.

- (a) If the Premises are partially destroyed or damaged and Lessor or Lessee repairs or restores them pursuant to the provisions of this Article, the rent payable hereunder for the period during which such damage, repair or restoration continues shall be abated in proportion to the degree to which Lessee's use of the Premises is impaired. Except for abatement of rent, if any, Lessee shall have no claim against Lessor for any damage suffered by reason such damage, destruction, repair or restoration.
- (b) If Lessor shall be obligated to repair or restore the Premises under the provisions of this Paragraph 9 and shall not commence such repair or restoration within 90 days after such obligations shall accrue, Lesse may at Lesse's option cancel and terminate this Lease by giving Lessor written notice of Lessee's election to do so at any time prior to the commencement of such repair or restoration. In such event this Lease shall terminate as of the date of such notice. Any abatement in rent shall be computed as provided in Paragraph 9 5(a).
- 9.6 Termination—Advance Payments. Upon termination of this Lease pursuant to this Paragraph 9, an equitable adjustment shall be made concerning advance rent and any advance payments made by Lessee to Lessor. Lesso: shall, in addition, return to Lessee so much of Lessee's security deposit as has not theretofore been applied by Lessor.

# 10. Real Property Taxes.

- 10.1 Payment of Tax Increase. Lessor shall pay all real property taxes applicable to the Premises; provided, however, that Lessee shall pay, in addition to rent, the amount, if any, by which real property taxes applicable to the Promises increase over the fiscal tax year 19\_84\_85\_\_\_\_. Such payment shall be made by Lessee within thirty (30) days after receipt of Lessor's written statement setting forth the amount of such increase and the reasonable computation thereof. If the term of this Lease shall not expire concurrently with the expiration of the tax fiscal year, Lessee's liability for increased taxes for the last pertial lease year shall be prorated on an annual basis.
- 10.2 Definition of "Real Property" Tax. As used herein, the term "real property tax" shall include any form of assessment, license fee, commercial rental tax, levy, penalty, or tax (other than inheritance or estate taxes), imposed by any authority having the direct or indirect power to tax, including any city, county, state or federal government, or any school, agricultural, lighting, dramage or other improvement district thereof, as against any legal or equitable interest of Lessor in the Premises or in the real/property of which the Premises are a part, as against 1 essor's right to rent or other income thereform, or as against Lessor's business of leasing the Premises.
- 10.3 Joint Assessment. If the Premises are not separately assessed, Lessee's liability shall be an equitable proportion of the real property taxes for all of the land and improvements included within the tax parcel assessed, such proportion to be determined by Lessor from the respective valuations assigned in the assessor's work sheets or such other information as may be reasonably available. Lessor's reasonable determination thereof, in good faith, shall be conclusive.

# 10.4 Personal Property Taxes

- (a) Lessee shall pay prior to delinquency all taxes assessed against and levied upon trade fixtures, furnishings, equipment and all other personal property of Lessee contained in the Premises or elsewhere. When possible, Lessee shall cause said trade fixtures, furnishings, equipment and all other personal property to be assessed and billed separately from the real property of Lessor.
- (b) If any of Lessee's said personal property shall be assessed with Lessor's real property, Lessee shall pay Lessor the taxes attributable to Lessee within 10 days after receipt of a written statement setting forth the taxes applicable to Lessee's property.

11. Utilities. Lessee shall pay for all water, gas, heat, light, power, telephone and other utilities and services supplied to the Premises, together with any taxes thereon. If any such services are not separately metered to Lessee, Lessee shall pay a reasonable proportion to be determined by Lessor of all charges jointly metered with other premises.

#### 12. Assignment and Subletting.

- 12.1 Lessor's Consent Required. Lessee shall not voluntarily or by operation of law assign, transfer, mortgage, sublet, or otherwise transfer or encumber all or any part of Lessee's interest in this Lease or in the Premises, without Lessor's prior written consent, which Lessor shall not unreasonably shold. Any attempted assignment, transfer, mortgage, encumbrance or subletting without such consent shall be void, and shall constitute a breach of is Lease.
- 12.2 No Release of Lessee. Regardless of Lessor's consent, no subletting or assignment shall release Lessee of Lessee's obligation or alter the primary liability of Lessee to pay the rent and to perform all other obligations to be performed by Lessee hereunder. The acceptance of rent by Lessor from any other person shall not be deemed to be a waiver by Lessor of any provision hereof. Consent to one assignment or subletting shall not be deemed. consent to any subsequent assignment or subletting.
- 12.3 Attorney's Fees. In the event that Lessor shall consent to a sublease  $\alpha$  attorneys' fees not to exceed \$100 incurred in connection with giving such consent. Attorney's Fees. In the event that Lessor shall consent to a sublease or assignment under Paragraph 12.1, Lessee shall pay Lessor's reasonable

# 13. Defaults; Remedies.

- 13.1 Defaults. The occurrence of any one or more of the following events : hall constitute a material default and breach of this Lease by Lessee:
  - (a) The vacating or abandonment of the Premises by Lessee.
- (b) The failure by Lessee to make any payment of rent or any other payment required to be made by Lessee hereunder, as and when due, where such failure shall continue for a period of three days after written notice thereof from Lesser to Lessee.
- (c) The failure by Lessee to observe or perform any of the covenants, conditions or provisions of this Lease to be observed or performed by Lessee, other than described in paragraph (b) above, where such failure shall continue for a period of 30 days after written notice hereof from Lessor to Lessee; provided, however, that if the nature of Lessee's default is such that more than 30 days are reasonably required for its cure, then Lessee shall not be deemed to be in default if Lessee commenced such cure within said 30-day period and thereafter diligently prosecutes such cure to completion.
- (d) . (i) The making by Lessee of any general assignment, or general assignment for the benefit of creditors; (ii) the filing by or against Lessee of a petition to have Lessee adjudged a bankrupt or a petition for reorganization or arrangement under any law relating to bankrupt (unless, in the case of a petition filed against Lessee, the same is dismissed within 60 days; (iii) the appointment of a trustee or receiver to take possession of substantially all of Lessee's assets located at the Premises or of Lessee's interest in this Lease, where possession is not restored to Lessee within 30 days; or (iv) the attachment, execution or other judicial seizure of substantially all of Lessee's assets located at the Premises or of Lessee's interest in this Lease, where such seizure is not discharged within 30 days.
- 13.2 Remedies. In the event of any such material default or breach by Lessee, Lessor may at any time thereafter, with or without notice or demand and without limiting Lessor in the exercise of any right or remedy which Lessor may have by reason of such default or breach:
- (a) Terminate Lesse's right to possession of the Premises by any lawful means, in which case this Lease shall terminate and Lessee shall immediately surrender possession of the Premises to Lessor. In such event Lesser shall be entitled to recover from Lessee all damages incurred by Lessor by reason of Lessee's default including, but not limited to, the cost of recovering possession of the Premises; expenses of reletting, including necessary renovation and alteration of the Premises, reasonable attorney's fees, and any real estate commission actually paid; the worth at the time of award by the court having jurisdiction thereof of the amount by which the unpaid rent for the balance of the term after the time of such award exceeds the amount of such rental loss for the same period that Lessee proves could be reasonably avoided; that portion of the leasing commission paid by Lessor pursuant to Article 15 applicable to the unexpired term of this Lesse. Unpaid installments of rent or other sums shall bear interest from the date due at the rate of 10% per annum. In the event Lessee shall have abandoned the Premises, Lessor shall have the option of (i) retaking possession of the Premises and recovering from Lessee the amount specified in this Paragraph 13.2(a), or (ii) proceeding under Paragraph 13.2(b).
- (b) Maintain Lessee's right to possession in which case this Lease shall continue in effect whether or not Lessee shall have abandoned the remises. In such event Lessor shall be entitled to enforce all of Lessor's rights and remedies under this Lease, including the right to recover the rent as it pecomes due hereunder.
  - (c) Pursue any other remedy now or hereafter available to Lessor under the laws or judicial decisions of the State of California.
- 13.3 Default by Lessor. Lessor shall not be in default unless Lessor fails to perform obligations required of Lessor within a reasonable time, but in no event later than thirty (30) days after written notice by Lessee to Lessor and to the holder of any first mortgage or deed of trust covering the Premises whose name and address shall have theretofore been furnished to Lessee in writing, specifying wherein Lessor has failed to perform such obligation; provided, however, that if the nature of Lessor's obligation is such that more than thirty (30) days are required for performance then Lessor shall not be in default if Lessor commences performance within such 30-day period and thereafter diligently prosecutes the same to completion.
- 13.4 Late Charges. Lessee hereby acknowledges that late payment by Lessee to Lessor of rent and other sums due hereunder will cause Lessor to incur costs not contemplated by this Lease, the exact amount of which will be extremely difficult to ascertain. Such costs include, but are not limited to, processing and accounting charges, and late charges which may be imposed on Lessor by the terms of any mortgage or trust deed covering the Premises. Accordingly, if any installment of rent or any other sum due from Lessee shall not be received by Lessor or Lessor's designee within ten (10) days after such amount shall be due, Lessee shall pay to Lessor a late charge equal to 10% of such overdue amount. The parties hereby agree that such late charge represents a fair and reasonable estimate of the costs Lessor will incur by reason of late payment by Lessee. Acceptance of such late charge by Lessor shall in no event constitute a waiver of Lessee's default with respect to such overdue amount, nor prevent Lessor from exercising any of the other rights and remedies granted becomed. remedies granted hereunder.
- 14. Condemnation. If the Premises or any portion thereof are taken under the power of eminent domain, or sold under the threat of the exercise of said power (all of which are herein called "condemnation"), this Lease shall terminate as to the part so taken as of the date the condemning authority takes title or possession, whichever first occurs. If more than 10% of the floor area of the improvements on the premises, or more than 25% of the land area of the Premises which is not occupied by any improvements, is taken by condemnation, Lessee may, at Lessee's option, to be exercised in writing only within ten (10) days after Lessor shall have given Lessee written notice of such taking (or in the absence of such notice, within ten (10) days after the condemning authority shall have taken possession) terminate this Lease as of the date the condemning authority takes such possession. If Lessee does not terminate this Lease in accordance with the foregoing, this Lease shall remain in full force and effect as to the portion of the Premises remaining, except that the rent shall be reduced in the proportion that the floor area taken bears to the total floor area of the building situated on the Premises. Any award for the taking of all or any part of the Premises under the power of eminent domain or any payment made under threat of the exercise of such power shall be the property of Lessor, whether such award shall be made as compensation for diminution in value of the leasehold or for the taking of the fee, or as severance damages; provided, however, that Lessee shall be entitled to any award for loss of or damage to Lessee's trade fixtures and removable personal property. In the event that this Lease is not terminated by reason of such condemnation, Lessor shall, to the extent of severance damages received by Lessor in connection with such condemnation, repair any damage to the Premises caused by such condemnation except to the extent that Lessee has been reimbursed therefor by the condemnation of this Lessee shall pay
- 15. Broker's Fee. Upon execution of this Lease by both parties, Lessor shall pay to

# 16. General Provisions

# 16.1 Estoppel Certificate.

- (a) Lessee shall at any time upon not less than ten (10) days' prior written notice from Lessor execute, acknowledge and deliver to Lessor a statement in writing (i) certifying that this Lease is unmodified and in full force and effect (or, if modified, stating the nature of such modification and certifying that this Lease, as so modified, is in full force and effect) and the date to which the rent and other charges are paid in advance, if any, and (ii) acknowledging that there are not, to Lessee's knowledge, any uncured defaults on the part of Lessor hereunder, or specifying such defaults if any are claimed. Any such statement may be conclusively relied upon by any prospective purchaser or encumbrancer of the Premises.
- (b) I essee's failure to deliver such statement within such time shall be conclusive upon Lessee (i) that this Lease is in full force and effect, without modification except as may be represented by Lessor, (ii) that there are no uncured defaults in Lessor's performance, and (ni) that not more than one month's rent has been paid in advance.
- (c) If Lessor desires to finance or refinance the Premises, or any part thereof, Lessoe hereby agrees to deliver to any lender designated by Lessor such financial statements of Lessee as may be reasonably required by such lender. Such statements shall include the past three years' financial statements of Lessee. All such financial statements shall be received by Lessor in confidence and shall be used only for the purposes herein set forth.
- 16.2 Lessor's Liability. The term "Lessor" as used herein shall mean only the owner or owners at the time in question of the fee title or a lessee's interest in a ground lease of the Premises, and except as expressly provided in Paragraph 15, in the event of any transfer of such title or interest, Lessor herein named (and in case of any subsequent transfers the then grantor) shall be relieved from and after the date of such transfer of all liability as respects Lessor's obligations thereafter to be performed, provided that any funds in the hands of Lessor or the then grantor at the time of such transfer, in which Lessee has an interest, shall be delivered to the grantee. The obligations contained in this Lease to be performed by Lessor shall, subject as aforesaid, be binding on Lessor's successors and assigns, only during their respective periods of ownership.
- 16.3 Severability. The invalidity of any provision of this Lease as determined by a court of competent jurisdiction, shall in no way affect the validity of any other provision hereof.
- 16.4 Interest on Past-due Obligations. Except as expressly herein provided, any amount due to Lessor not paid when due shall bear interest at 10% per annum from the date due. Payment of such interest shall not excuse or cure any default by Lessee under this Lease.
  - 16.5 Time of Essence. Time is of the essence.
  - 16.6 Captions. Article and paragraph captions are not a part hereof.
- 16.7 Incorporation of Prior Agreements: Amendments. This Lease contains all agreements of the parties with respect to any matter mentioned herein. No prior agreement or understanding pertaining to any such matter shall be effective. This Lease may be modified in writing only, signed by the parties in interest at the time of the modification.

- 16.8 Notices. Any notice required or permitted to be given hereunder shall be in writing and may be served personally or by regular mail, addressed to Lessor and Lessee respectively at the addresses set forth after their signatures at the end of this Lease.
- 16.9 Waivers. No waiver by Lessor of any provision hereof shall be deemed a valver of any other provision hereof or of any subsequent breach by Lessee of the same or any other provision. Lessor's consent to or approval of any act shall not be deemed to render unnecessary the obtaining of Lessor's consent to or approval of any subsequent act by Lessee. The acceptance of rent hereunder by Lessor shall not be a waiver of any preceding breach by each provision hereof, other than the failure of Lessee to pay the particular rent so accepted, regardless of Lessor's knowledge of such preceding hat the time of acceptance of such rent.
- 16.10 Recording. Lessee shall not record this Lease without Lessor's prior written consent, and such recordation shall, at the option of Lessor, constitute a non-curable default of Lessee hereunder. Either party shall, upon request of the other, execute, acknowledge and deliver to the other a "short form" memorandum of this Lease for recording purposes.
- 16.11 Holding Over. If Lessee remains in possession of the Premises or any part thereof after the expiration of the term hereof without the express written consent of Lessor, such occupancy shall be a tenancy from month to month at a rental in the amount of the last monthly rental plus all other charges payable hereunder, and upon all the terms hereof applicable to a month-to-month tenancy.
- 16.12 Cumulative Remedies. No remedy or election hereunder shall be deemed exclusive but shall, wherever possible, be cumulative with all other remedies at law or in equity.
  - 16.13 Covenants and Conditions. Each provision of this Lease performable by I essee shall be deemed both a covenant and a condition.
- 16.14 Binding Effect; Choice of Law. Subject to any provisions hereof restricting assignment or subjecting by Lessee and subject to the provisions of Paragraph 16.2, this Lease shall bind the parties, their personal representatives, successors and assigns. This Lease shall be governed by the laws of the State of California.
  - 16.15 Subordination.
- (a) This Lease, at Lessor's option, shall be subordinate to any ground lease, mortgage, deed of trust, or any other hypothecation for security now or hereafter placed upon the real property of which the Premises are a part and to any and all advances made on the security thereof and to all renewals, modifications, consolidations, replacements and extensions thereof. Notwithstanding such subordination, Lessee's right to quiet possession of the Premises shall not be disturbed if Lessee is not in default and so long as Lessee shall pay the rent and observe and perform all of the provisions of this Lease, unless this Lease is otherwise terminated pursuant to its terms. If any mortgagee, trustee or ground lessor shall elect to have this Lease prior to the lien of its mortgage, deed of trust or ground lease, and shall give written notice thereof to Lessee, this Lease shall be deemed prior to such mortgage, deed of trust, or ground lease, whether this Lease is dated prior or subsequent to the cate of said mortgage, deed of trust or ground lease or the date of recording thereof.
- (b) Lessee agrees to execute any documents required to effectuate such supordination or to make this Lease prior to the lien of any mortgage, deed of trust or ground lease, as the case may be, and failing to do so within ten (10) days after written demand, does hereby make, constitute and irrevocably appoint Lessor as Lessee's attorney in fact and in Lessee's name, place and stead, to do so.
- 16.16 Attorney's Fees. If either party or the broker named herein brings an action to enforce the terms hereof or declare rights hereunder, the prevailing party in any such action, on trial or appeal, shall be entitled to his reasonable attorney's fees to be paid by the losing party as fixed by the court. The provisions of this paragraph shall inure to the benefit of the broker named herein who seeks to enforce a right hereunder.
- 16.17 Lessor's Access. Lessor and Lessor's agents shall have the right to enter the Premises at reasonable times for the purpose of inspecting the same, showing the same to prospective purchasers, or lenders, and making such alterations, repairs, improvements or additions to the Premises or to the building of which they are a part as Lessor may deem necessary or desirable. Lessor may at any time place on or about the Premises any ordinary "For Sale" signs and Lessor may at any time during the last 120 days of the term hereof place on or about the Premises any ordinary "For Lease" signs, all without rebate of rent or liability to Lessee.
  - 16.18 Signs and Auctions. Lessee shall not place any sign upon the Premises or conduct any auction thereon without Lessor's prior written sent.
- 16.19 Merger. The voluntary or other surrender of this Lease by Lessee, or a nutual cancellation thereof, shall not work a merger, and shall, at the option of Lessor, terminate all or any existing subtenancies or may, at the option of Lessor, operate as an assignment to Lessor of any or all of such subtenancies.
- 16.20 Corporate Authority. If Lessee is a corporation, each individual executing this Lease on behalf of said corporation represents and warrants that he is duly authorized to execute and deliver this Lease on behalf of said corporation, in accordance with a duly adopted resolution of the Board of Directors of said corporation or in accordance with the Bylaws of said corporation, and that this Lease is binding upon said corporation in accordance with its terms. If Lessee is a corporation Lessee shall, within thirty (30) days after execution of this Lease, deliver to Lessor a certified copy of a resolution of the Board of Directors of said corporation authorizing or ratifying the execution of this Lease.
  - 16-21 THE MONTHLY RENT FOR THE PREMISSES DURING THIS LEASE, SHALL BE AS FOLLOWS.

\$4,500.00 per Month, from September Ist. 1984, to December 30, 1984. \$5,000.00 per Month, from January Ist. 1985, to December 30, 1985. \$5,500.00 per Month, from January Ist. 1986, to December 30, 1986. \$6,000.00 per Month, from January Ist. 1987, to December 30, 1987. \$6,500.00 per Month, from January Ist. 1988, to December 30, 1988. \$7,000.00 per Month, from January Ist. 1989, to December 30, 1989.(END OF LEASE.).

The parties hereto have executed this Lease at the place and on the dates specified immediately adjacent to their respective signatures.

If this Lease has been filled in it has been prepared for submission to your attorney for his approval. No representation or recommendation is made by the real estate broker or its agents or employees as to the legal sufficiency, legal effect, or tax consequences of this Lease or the transaction relating thereto.

Executed at LOS ANGELES, CALIFORNIA.

By MARK ZIV

By Communication of the communication of t

Executed at LOS ANGELES, CALIFORNIA.

on 6-5-1784

Address 12600 Saticoy St.

North Hollywood, California.

SPRAYCO IAC.

By NEVILLE ISAACSON.

PRESIDENT.

"LESSEE"

EXHIBIT C

# OPTION

Lessor (Mark Ziv) grants to Lessee (Sprayco, Inc.) and its' assigns an option to extend the lease, dated March 30, 1979, for the premises at 12600 Saticoy for a period of five (5) years, beginning on the 1st day of September 1984 at a rental as Lessor shall then determine, providing however, that the rent shall be the fair market rental rate of the leased premises as of the commencement date of the extended term. Such fair market rental rate shall be ascertained by comparing the subject premises to other like premises in like areas in the vicinity.

Lessee shall notify Lessor in writing of its desire to exercise such option at least four (4) months prior to the expiration of the original lease term. Lessor shall notify Lessee in writing within thirty (30) days after receipt of such written notice from Lessee of the amount of rental and other terms applicable to such additional extension period. Lessee shall have a period of twenty (20) days after receipt of such notice from Lessor within which to deliver to Lessor notice in writing of its acceptance or rejection of said offer.

Failure of Lessee to so accept within said twenty (20) day period shall be construed as a rejection of said offer and this option shall thereupon be null and void.

DATE: 9/22/

DATE:

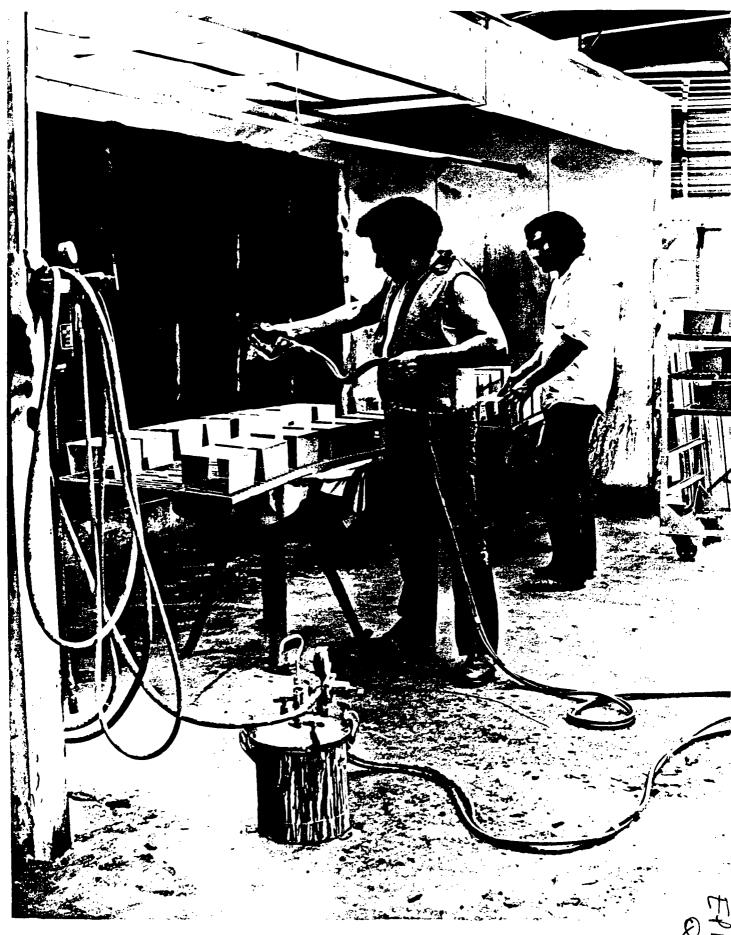
Mark Ziv, Lessor

Leonard W. Moore, President

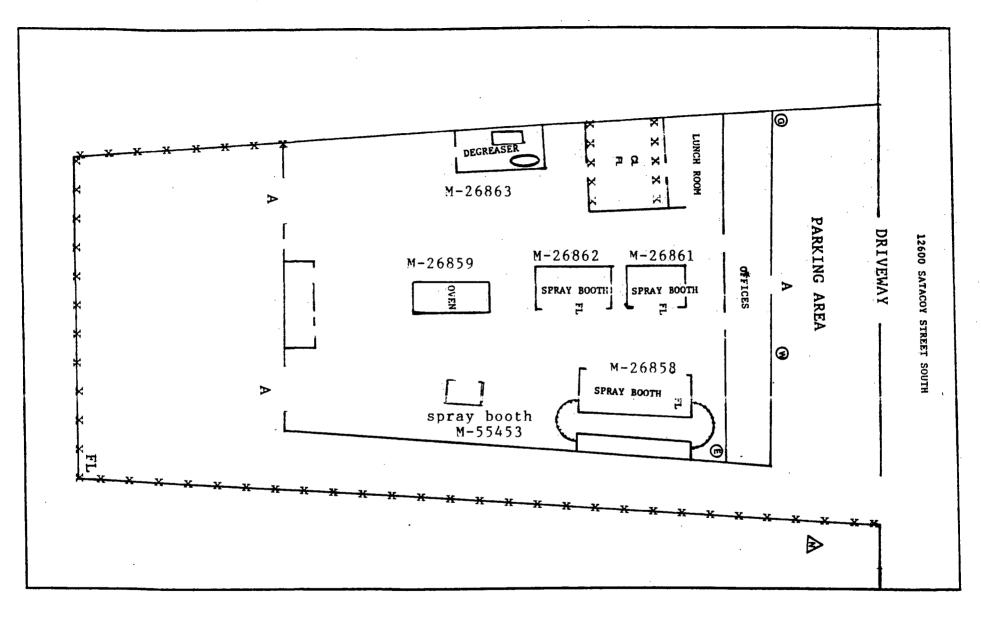
Sprayco, Inc.

EXHIBIT D





DNC FFF EXHIBIT E



Facility Unit: BUILDING
Scale of Map: 1 in = 25 ft Date: 2-8-88



HEADQUARTERS, 9150 FLAIR DR., EL MONTE, CA 91731

NOVEMBER 19, 1990

SPRAYCO INC, CLYDE LEE DBA 12600 SATICOY ST NORTH HOLLYWOOD CA 91605

ID - 019868

# PERMIT RENEWALS

PERMIT		APPLIC	EXPIRATION
NUMBER	DESCRIPTION	NUMBER	DATE
M55454	OVEN, BAKING	151645	10/16/91
M55453	SPRAY BOOTH PAINT AND SOLVENT	151646	10/16/91
M26858	SPRAY BOOTH PAINT AND SOLVENT	C43524	10/16/91
M26859	OVEN, BAKING	C4 3525	10/16/91
M26862	SPRAY BOOTH PAINT AND SOLVENT	C43528	10/16/91
M26863	DEGREASER 1,1,1 TRICHLOROETHANE (>1LB/D)	C43529	10/16/91

EXHIBIT F

# **GOLDEN STATE**



# **Analytical Services, Inc.** 15735-1 Strathern St. • Van Nuys • CA 91406 Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:

Sprayco, Inc.

Project Name: N/A Project #:

N/A

Matrix:

Sludge

Date Received: 08/23/90 Date Analyzed: 08/27/90

GSAS Job#:

5601

# TCLP Metals

Amount Detected	R.L.
(mg/L)	(mg/L)

Client Sample#:

GSAS Sample#:

GS-0890-381

Arsenic	BRL	0.10
Barium	4.0	0.20
Cadmium	0.11	0.05
Chromium	18	0.20
Lead	3.3	0.20
Mercury	BRL	0.01
Selenium	BRL	0.02
Silver	, BRL	0.05

RL: Reporting Limit

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

In. I. ben Denie

### **GOLDEN STATE**



Analytical Services, Inc. 15735-1 Strathern St. • Van Nuys • CA 91406 Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:

Sprayco, Inc.

N/A

Project#: Client P.O.#:

Project Name:

N/A N/A

Client Sample#: 1

Matrix:

Sludge

Date Received: 08/23/90 Date Analyzed: 08/27/90

GSAS Job#:

5601

GSAS Sample#: GS-0890-381

### Halogenated Volatile ()rganics (8010)

Compound	Amount Detected (ug/Kg)	RL (ug/Kg)
Chloromethane	BRL	50
Bromomethane	BRL	50
Vinyl Chloride	BRL -	50
Dichlorodifluoromethane	BRL	50
Chloroethane	BRL	50
Methylene Chloride	BRL	50
Trichlorofluoromethane	BRL	50
1,1-Dichloroethylene	BRL	50
1,1-Dichloroethane	BRL	50
trans-1,2-Dichloroethylene	BRL	50
Chloroform	BRL	50
1,2-Dichloroethane	BRL	50
1,1,1-Trichloroethane	2100	50
Carbon Tetrachloride	BRL	50
Bromodichloromethane	BRL	50
1,2-Dichloropropane	BRL	50
cis-1,3-Dichloropropylene	BRL	50
1,1,2-Trichloroethylene	BRL	50
Dibromochloromethane	BRL	50
1,1,2-Trichloroethane	BRL	50
trans-1,3-Dichloropropylene	BRL	50
2-Chloroethylvinyl Ether	BRL	50
Bromoform	BRL	50
1,1,2,2-Tetrachloroethane	BRL	50
1,1,2,2-Tetrachloroethylene	BRL	50
Chlorohenzene	BRL	50
1,3-Dichlorobenzene	BRL	50
1,2-Dichlorobenzene	BRL	50
1,4-Dichlorobenzene	BRL	50

RL: Reporting Limit

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

On. B. ban Denner

### **GOLDEN STATE**



### Analytical Services, Inc.

15735-1 Strathern St. • Van Nuys • CA 91406 Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:

Sprayco, Inc.

Project Name: N/A Project #:

Client PO#:

N/A

Matrix:

N/A

Date Received: 08/23/90

Sludge

Date Analyzed: 08/27/90

GSAS Joh#:

5601

Total Petroleum Hydrocarbons (8015m)

Client Sample # GSAS Sample #

Amount

Detected (mg/Kg)

R.L.

(mg/Kg)

Methanol

1

GS-0890-381

BRL

1.0

Dipropylene Glycol Monomethyl Ether

GS-0890-381

BR!.

1.0

RL: Reporting Limit

BRL: Below Reporting Limit

Approved By: Dr. B. Gene Bennett

Dr. D. hu Denede

### **GOLDEN STATE**



**Analytical Services, Inc.** 15735-1 Strathern St. • Van Nuys • CA 91406 Tel: (818) 376-1122 • Fax: (818) 781-8128

Client:

Sprayco, Inc.

Project Name:

N/A N/A

Project #:

Sludge

Matrix: Date Received: 08/23/90

Date Analyzed: 08/27/90

GSAS Job#:

5601

### Total Petroleum Hydrocarbons (8015m - Fuel Characterization)

Client	GSAS	Fuel H.C. (mg/Kg)	Fuel	Hydrocarbon
Sample ID	Sample #		Characterization	Range
1	GS-0890-381	1300	Petroleum Distillates	C6 - C30

Approved By: Dr. B. Gene Bennett

Pr.D. be Dente

# LE AND CHAIN OF CUSTODY RECOF

CSA JUL#: 5601

	TORY JOB NUMBER:	SJE	<del></del>				•	
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ABORATORY INFORMATION							. :	
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pH TOTAL CYANIDE, mg/i CN TOTAL ARSENIC, mg/i As TOTAL CADMIUM, mg/i Cd TOTAL CHROMIUM, mg/i Cr TOTAL COPPER, mg/i Cu		101 208 705 708 709 712		COI				COOE
pH TOTAL CYANIDE, mg/l CN TOTAL ARSENIC, mg/l As TOTAL CADMIUM, mg/l Cd TOTAL CHROMIUM, mg/l Cr TOTAL COPPER, mg/l Cu TOTAL LEAD, mg/l Pb		101 208 705 708 709 712 714		COI				COOE
pH TOTAL CYANIDE, mg/l CN TOTAL ARSENIC, mg/l As TOTAL CADMIUM, mg/l Cd TOTAL CHROMIUM, mg/l Cr TOTAL COPPER, mg/l Cu TOTAL LEAD, mg/l Pb TOTAL MERCURY, mg/l Hg		101 208 705 708 709 712 714 717		COI				COOE
pH TOTAL CYANIDE, mg/l CN TOTAL ARSENIC, mg/l As TOTAL CADMIUM, mg/l Cd TOTAL CHROMIUM, mg/l Cr TOTAL COPPER, mg/l Cu TOTAL LEAD, mg/l Pb TOTAL MERCURY, mg/l Hg TOTAL NICKEL, mg/l Ni		101 206 705 708 709 712 714 717 718		COI				COOE
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PH TOTAL CYANIDE, mg/I CN TOTAL ARSENIC, mg/I As TOTAL CADMIUM, mg/I Cd TOTAL CHROMIUM, mg/I Cd TOTAL CHROMIUM, mg/I Cr TOTAL COPPER, mg/I Cu TOTAL LEAD, mg/I Pb TOTAL MERCURY, mg/I Hg TOTAL NICKEL, mg/I NI TOTAL SILVER, mg/I Ag TOTAL ZINC, mg/I Zn FLASH POINT *C TOTAL PHENOLS, mg/I Cg Hg OH OIL AND GREASE, mg/I		101 206 705 708 709 712 714 717 718 722 724 108 312		COI				COOE
PH TOTAL CYANIDE, mg/I CN TOTAL ARSENIC, mg/I As TOTAL CADMIUM, mg/I Cd TOTAL CHROMIUM, mg/I Cd TOTAL CHROMIUM, mg/I Cr TOTAL COPPER, mg/I Cu TOTAL LEAD, mg/I Pb TOTAL MERCURY, mg/I Hg TOTAL NICKEL, mg/I NI TOTAL SILVER, mg/I Ag TOTAL ZINC, mg/I Zn FLASH POINT *C TOTAL PHENOLS, mg/I Cg Hg OH OIL AND GREASE, mg/I		101 206 705 708 709 712 714 717 718 722 724 108 312		COI				COOE
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i# 1

Recd 4-4-91



### COUNTY SANITATION DISTRICTS

### OF LOS ANGELES COUNTY

1985 Workman Mill Road, Whittier, California 90807 Mailing Address: P.O. Box 4998, Whittier, California 90807 Telephone: (213) 689-0405, From Los Angeles (213) 685-5217

FAX #(213) 699-3368

Date:

### FAX TRANSMITTAL

TO	:	STAN TOWNSONS
		(Individual)
	. •	· LAC HO
		(Organization)
ROM	3	STEVE CARR (Individual)
		(Indiaidmat)
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Operations
And
Maintenance
7-7-89

Sprayco SJE 00895, 00896, 00898 Sampled: 08/17/90 Analyzed: 01/14/91

County Sanitation Districts of Los Angeles San Jose Creek Water Quality Laboratory T814R03 B798

Samples SJE00895, SJE00896, and SJE00898 were analyzed for volatile halocarbons and aromatics using EPA methods 8010 and 8020. The headspace of the samples had been screened previously by GC/MS. The compounds of the 8010/8020 series that were identified were quantitated using Varian 3400 gas chromatographs along with purge and trap techniques. The two gas chromatographs used for the analyses had electrolytic conductivity detectors (halogen mode) and photoionization detectors (10.0 eV lamps). Supelco VOCOL columns were used for the chromatographic separations. The systems were calibrated and blanks were analyzed prior to analyzing the samples. Surrogate compounds (bromochloromethane, fluorobenzene, and bromobenzene) were added to the samples to verify the proper operation of the instrumentation.

### Sample SJE00895 Sample 3A - A grey liquid sludge-like material.

Compound	mg/kg	Quantitation limit
Methylene chloride 1,1,1-Trichloroethane Tetrachloroethylene	150 1,700 200	2.0 mg/kg 2.0 2.0
Toluene	1,500	2.0

<sup>\*</sup> Average of two analyses

### Sample 8JE00896 Sample 4A - A grey liquid.

Compound	mg/L	Quantitation 1	
Toluene *	3,100 =		

<sup>\*</sup> Average of two analyses

Sample SJE00898 Sample 6A - A sticky blue/black substance.

Compound	mg/kg		Quantitation limit	
1,1,1-Trichloroethane	30	* #	2.0 mg/kg	
Toluene	5,200	Ŕ	5.0	
Ethylbenzene	2,800	•	5.0	
p+m-Xylene	8,300	*	5.0	
o-Xylene	1,100	•	5.0	

A Average of three analyses \* Average of two analyses # Level too low to be confirmed by GC/MS headspace analysis

Approved by: Michael Sagota

Approved by: 21/2 Cahilia

	RESULT ENTR	(I		01/16/91
	T\$00000B00	00	3: ES(	000008000
time from:			•	
			_ •	LITER
	KPI COMPLE	TION DATE	. TO/OS/	/
	Test '	VERIFY NET	TOOT I	
SIG	N RESULT	CODE UN	IT NOTE	TINU
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			34	NONE
DE	660000	* 1	3 3	NG/L
	24000		_	MG/L
	798 2: TIME FROM: - 000 TYPE 12600 SAJICOU	798 2: TS00000B00 TIME FROM: 08/17/90 - 000 TYPE: SFS 12600 SAJICOU ST., SOUTH RPT COMPLET TEST TEST SIGN RESULT	798 2: TS00000B000  TIME FROM: 08/17/90 19:00  - 000 TYPE: SFE VOLUME 12600 SAJICOU ST., SOUTH N. HOLL!  RPT COMPLETION DATE:  TEST VERIFY NET  SIGN RESULT CODE UN	798 2: TS00000B000 3: ES  TIME FROM: 08/17/90 19:00 TO: 08, - 000 TYPE: SFS VOLUME: 12600 SAJICOU ST., SOUTH N. HOLLYWOOD 8: RPT COMPLETION DATE: 10/05, TEST VERIFY NEW FOOT SIGN RESULT CODE UNIT NOTE

PF: 2=Process Menu 3=Function Menu 8=Notes To User(N) 9=Sign Off

CHANGE	BJC WQL TEST RESULT ENT	RY	01/16/91
LAB JOB NO.: SJ000894 CHARGE NO. 1: TS14R03B7 REQUESTED BY: B. JONES	98 2: TS00000B0	00 3: Es	000000B000
COMPOSITE SAMPLE DATE AND T SAMPLE LOCATION: 3 - IWO3	- 000 TYPE: SFS	Volume:	LITER
DESCRIPTION: SPRAYCO, RPT APPROVED BY:		R R. ROLLIWOOD &	:=====================================
TEST DESCRIPTION	SIGN RESULT	VERIFY NEW FOOT	UNIT
1: 170 - NO TEST REQUESTED 2: 601 - METHYLENE CHLORID 3: 708 - CADMIUM		* 4	none Mg/kg Mg/l CD
4: 709 - TOTAL CHROMIUM 5: 712 - COPPER		* *	MG/L CR MG/L CU MG/L PB
6: 714 - LEAD 7: 718 - NICKEL		•	MG/L NI

PF: 2=Process Kenu 3=Function Menu 5=Forward 8=Notes To User(N) 9=Bign Off

LAB JOB NO.: SJE00895			•		
CHARGE NO. 1: TS14R03B	798 2	: TS00000B0	00	3: ES(	0000B000
REQUESTED BY: B. JONES					
COMPOSITE SAMPLE DATE AND		l: 08/17/90			/17/90 21:3
EAMPLE LOCATION: 3 - IW03		PE: BFS	AOTO		LITER
	12600 BAJICO				
RPT APPROVED BY: RB		RPT CONPLE	TION DATE	2: 10/05/	/90
-4 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 - 6 -		**********	######################################	******	**********
		Test '	verify ni	TOOT WE	
TEST DESCRIPTION		ign result		SIT NOTE	UNIT
***	*******	ign result		NIT NOTE	UNIT
	*******				UNIT
1: 170 - NO TEST REQUESTE 2: 601 - METHYLENE CHLORIS	********* ** D DE			*** ***	******
1: 170 - NO TEST REQUESTE	********* ** D DE	_	***	*** ***	NONE MG/KG
1: 170 - NO TEST REQUESTE 2: 601 - METHYLENE CHLORIS	********* ** D DE THANE	**************************************	* (	*** ***	NONE

PF: 2=Process Menu 3=Function Menu 8=Notes To User(N) 9=Sign Off

CHANGE	JC WOL TEST RESULT ENTRY	01/16/91
LAB JOB NO.: SJE00898 CHARGE NO. 1: TS14R03B7 REQUESTED BY: B. JONES	2: T500000B000	3: ES00000B000
COMPOSITE SAMPLE DATE AND T SAMPLE LOCATION: 3 - IW03	- 000 TYPE: SFS	OLUME: LITER
DESCRIPTION: SPRAYCO, RPT APPROVED BY: RB	L2600 SAJICOU ST., SOUTE N. RPT COMPLETION	
TEST DESCRIPTION	TEST VERI	E UNIT NOTE UNIT
1: 170 - NO TEST REQUESTED 2: 621 - TOLUENE	- 5200 <b>+</b>	34 none 4 ng/kg
3: 624 - ETHYL BENZENE 4: 629 - O-XYLENE	2800 * 1100 *	4 MG/KG 4 MG/KG
5: 695 - M+P-XYLENE	8300 *	4 MG/KG

PF: 2-Process Menu 3-Function Menu 8-Notes To User(N) 9-Sign Off

Sprayco SJE 00893, SJE 00894 Sampled 08/17/90 Analysed 01/14/91 TS14R03 B798 01/15/91

Samples SJE 00893 and SJE 00894 were analysed for volatile halogenated hydrocarbons and aromatic hydrocarbons using EPA methods 8010 and 8020. The headspace of the samples had been screened previously by GC/MS. The compounds that were identified were quantitated using VARIAN 3400 gas chromatographs along with purge and trap techniques. The two gas chromatographs used for the analyses had electrolytic conductivity detectors (halogen mode) and photoionization detectors (with 10.0 eV lamps). A Supelco VOCOL column and a JtW DE-624 column were used for the chromatographic separations. The systems were calibrated and blanks were analysed prior to analyzing the samples. Surrogate compounds (bromochloromethane, fluorobensene and bromobenzene) were added to the samples analysed using the VOCOL column, while methylcyclohexane, bromochloromethane and 1,4-dichlorobutane were added to the samples analysed with the DB-624 column to verify the proper operation of the instrumentation and be used for quantitation.

1) Sample SJE 00893 Sample 1A - a grey liquid sample The compounds were present at the following concentrations:

Compound	mg/L Quantitation li		Quantitation limit
Methylene chloride	660,000	*	16,000 mg/L
Toluene	24,000		6,200 mg/L

- \* The results are average of two analyses
- 2) Sample SJE 00894 Sample 2A a black sludge-like material

  All the compounds are below the quantitation limit of 5.0 mg/kg.

Analysed by: 343uery 1/15/91

Approved by: Laddle 1/15/81

EXHIBIT H

# **Rho-Chem**

Rho-Chem Corporation 425 Isis Avenue Inglewood, CA 90301

# MATERIAL SAFETY DATA SHEET

Essentially similar to OSHA Form 20 REV. 082279

025009

		SECTION I	. PRODL	CT IDENTIFICATION	ON 2407 Re	constituted		
PRODUCT NAME	Methyle	ne Chlorid	le	STOCK NO.				
CHEMICAL NAME AND SYNONYMS	Dichlor	Dichloromethane		FORMULA	T i	CH <sub>2</sub> C1 <sub>2</sub>		
CHEMICAL FAMILY	Chlorinated hydrocarbon CAS# 75092		EMERGENCY PHONE NO.	(213) 776	(213) 776-6233			
NATIONAL FIRE PROTECTION ASSOCIATION HAZARD IDENTIFICATION	AIR QUALITY MANAGE MEI PHOTOCHEMICAL REACTIV Non-photochemically (less than 4%)		REACTIVITY  ically reactive	DEPARTMENT OF TRANSPORTAT HAZARD CLASS ORM-A		ATION		
		SECTION I	I. HAZA	RDOUS INGREDIEN	ITS			
MATERIAL		TLV (UNITS)	%	MATERIA	NL .	TLV (UNITS)	%	
Methylene Chlori	de	100	100					
	<del>:::::::::::::::::::::::::::::::::::</del>	SECTI	ON III. F	PHYSICAL DATA				
IOII. ING POINT	104°F		<b></b>	FREEZING POINT	-142°F	·	<del></del>	
PECIFIC GRAVITY H <sub>2</sub> O = 1)	1.320	1.320 @ 25/25°C		VAPOR PRESSURE	352.1	352.1 mm Hg		
APOR DENSITY AIR = 1)	2.93	<del></del>		SOLUBILITY IN WATER	0.198	0.198		
PERCENT VOLATILES BY VOLUME	100			EVAPORATION RATE	147	147 (CC1 <sub>4</sub> =100)		
APPEARANCE	Colorle	ss liquid		ODOR	Somewhat	Somewhat ethereal		
	SECT	ION IV. FI	RE AND E	XPLOSION HAZAR	D DATA			
FLASH POINT TEST METHOD)	None (T	.o.c.)		FLAMMABLE LIMITS	Upper 19	(in air)		
AUTOIGNITION TEMPERATURE	1033°F			(K BY VOLUME)	Lower 12 (in air)			
XTINGUI <b>SHING</b> ÆDIA	1 -	ence in a shing medi		s not hinder the	use of any	standard		
PECIAL PREFIGHTING PROCEDURES	•			ing apparatus app and to cool cont	•	IOSH. Use w	ater	
UNUSUAL FIRE AND EXPLOSION HAZARDS	arcs, an	d open ele	ctric he	peratures that or sters decompose t ting vapors.				

	777	BECTION Y	V. HEALT	HAZARD	A	
THRESHOLD LIMIT	200ppm		MAXIMUM CI PER DURA II	ONCENTRATION ON LEVEL	1000ppm/5	minutes in 2 hours
FFECTS OF FER EXPOSURE	Skin - prolondermatitis. respiratory	nged or repetended or repeter of the second or repeter or repete	eated conta excessive dizziness en asphyxia	ict can cause inhalation of weakness, i ition. Swallo	moderate of vapors of fatigue, na	urred vision. irritation, defattir an cause nasal and usea, headache, pose cause gastrointesti
EMERGENCY AND FIRST AID PROCEDURES	with soap and Breathing - i administer or not give stim with fatal re	d water. Ren if affected cygen. If bu mulants. Ep:	nove contar remove to reathing had inephrine of llowed - in	inated cloth fresh air. ] as stopped, g or ephedine m	ning and la If breathin Live artifinay adverse	hly wash exposed are under before re-use. g is difficult, cial respiration. Do ly affect the heart ive anything by mout
	1 4 <u>1</u> ,			TIVITY DATA	\	
STABILITY	Unstable	Х.	Stable H	szardous Polymeniza	tion Ma	Occur X Will Not Occur
	S	ECTION VII.	SPILL OR	LEAK PROCE	OURES	
STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED	Absorb liquid containers. I protective eq	rovide adec				
ASTE DISPOSAL ETHOD	Make arranger facility.	ents throug	gh a permi)	ted ISD (Tra	insport Sto	rage & Disposal)
	SECTION	ON VIII. SP	ECIAL PROT	ECTION INFO	RMATION	
RESPIRATORY PROTECTION	positive pres	sure hose p	asks, air-	line mask fo	r spills o	breathing apparatus, rextreme conditions
VENTILATION	exposure belo	w threshold	limit val	ue.		lation to maintain
PROTECTIVE GLOVES	Polyvinyl alcopolyethylene	ohol, E	Chemical	afety google	EQ. UBA	ROTECTIVE ENT Rubber apron
		SECTION I	X. SPECIA	L PRECAUTIO	NS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	continue to b liquid. Stora equalization. contact with	e hazardous ge tanks sh Vents from strong oxid	because to bould be ad indoor ta lizing agen	hey retain p equately ven nks should t ts (nitric a	roduct res ted for fi erminate of cid, perman	Empty containers idues; vapor or ling and pressure utdoors. Avoid nganates, etc.), tc.) and alkali meta
OTHER PRECAUTIONS	SOLVENT. A vi poured into h occur. Add co RECOMMENDED C	olent erupt ot oil or g ld solvent LEAN-OUT TE	ion may oc rease. Sev in the mor MPERATULE	cur similar ere body and ming before or recommend	to the read facial buildegreaser of clean-order	D SOLVENT INTO BOILI ction of cold water rns and/or fire may start-up. DO NOT EXC ut specific gravity. ntaminants may occur

والأبيري فالمعارض المساد

### Sales, Inc., P. O. Box 1215, Crossville, Tn. 3 Emergency Phone: 615-484-9578 38557

### PRODUCT NAME: BENCO #87 INDUSTRIAL PAINT REMOVER

- PRODUCT INFORMATION:
  General or Generic ID: Chlorinated Hydrocarbon, Alcohol Blend
  Trade Name: Benco #87 Hazard Classification: Corrosive Liquid
  DOT Shipping Name: Paint Related Material, Corrosive Liquid, NA1760
- HAZARDOUS COMPONENTS: PEL (ACGIH) 50 ppm 200 ppm INGREDIENT (OSHA) 500 ppm Methylene Chloride 200 ppm Methanol Biodegradable Wetting Agents & Wax N/A N/A N/A N/A Note: Methylene Chloride and Methanol are subject to reporting requirements of Section 313 of Title II: of the 1986 Superfund Amendments and Reauthorization Act (SARA) and 40CFR Part 372, which apply to businesses with 10 or more employees. Please call Benco regarding reporting quantities at 800-854-4874.
- PHYSICAL DATA:
  Boiling Point (Initial): 104 F
  Vapor Density: 2.73 (air = 1)
  Specific Gravity: 1.180
  Appearance: Colorless liquid
  VOC content: 244 grams/liter

Vapor Pressure: <300 mm Hg Solubility in Water: Emulsifies Percent Volatile by Volume: 95% Odor: Typical Methylene Chloride

- FIRE AND EXPLOSION MAZARD DAINS
  Flash Point: None to boiling point
  Flammable Limits: LFL: Unknown
  Extinguishing Media: Water fog
  Fire & Explosion Hazards: May form flammable vapor-air mixtures at
  temperatures above ambient. Lower temperatures increase the TIRE AND EXPLOSION HAZARD DATA temperatures above ambient. Lower temperatures increase the difficulty of ignition. Fire-fighting Equipment: Wear positive pressure self contained respiratory equipment due to thermal decompostion products
- HEALTH HAZARD DATA:

  EFFECTS OF OVEREXPOSURE:

  Eyes: Can cause severe irritation and slight corneal injury. Vapors of also irritate eyes. Injury intensifies with extended contact.

  Skin: Prolonged or repeated exposure will cause a burn. The burn will Vapors may intensify with repeated contact.

intensify with repeated contact.

Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea, blindness, and even death. If aspirated (liquid enters the lung), may be rapidly absorbed through the lungs and result in injury to other body systems.

Inhalation: Major route of potential exposure. Methylene Chloride depresses the central nervous system. Concentrations between 900-1,000 ppm may cause dizziness or drunkenness. Nausea, headache, and vomiting can occur at concentrations above 2,000 ppm. At 7,000 ppm, numbress and tingling in arms and legs and rapid heartbeat have occurred. Loss of consciousness and death have occurred at levels above 9,000 ppm, if exposure is prolonged. Carboxyhemoglobin levels can be elevated in persons exposed to methylene chloride and can cause a substantial stress on the cardiovascular system. This elevation can be additive to the increase caused by smoking and elevation can be additive to the increase caused by smoking and

other carbon monoxide sources.

Medical Conditions Aggravated By Exposure: Alcoholism, acute and chronic liver disease, chronic lung disease, enemia, coronary disease or rhythm disorders of the heart.

Notice: Reports have associated repeated and prolonged overexposure to solvents to permanent brain and nervous system damage. Persons thought to have heart or respiratory problems should seek medical advice before using solvents of any kind. If signs of allergy develop (breathing difficulty, eye itching, prolonged itching and redness of the skin, headaches, dizziness, etc.) discontinue use of this product immediately and consult a physician. Drinking alcohol before, during, or after exposure to solvents may cause undesirable effects.

and the second section

### MATERIAL SAFETY DATASHEE CO Sales, Inc., P.O. Box 1215, Crossville, In. Emergency Phone: 613-484-9378 <u>E</u>T N. 38557

#### PRODUCT NAME: BENCO #87 INDUSTRIAL PAINT REMOVER-Page 2

Remove contaminated clothing <u>Call physician, poison control center, or hospital emergency</u> room IMMEDIATELY.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

Physician. NOTE TO PHYSICIAN: Adrenalin should never be given to a person overexposed to methylene chloride.

TOXICITY:

Chronic Toxicity: The finding of chronic toxic effects in laboratory animals may indicate toxicity to humans. Overexposure should be avoided, failure to do so could result in injury, illness or even death.

Chronic overexposures to methylene chloride have caused liver and kidney toxic effects in experimental animals.

Carcinogenicity: Methylene Chloride has been evaluated for possible cancer causing effects in laboratory animals. Inhalation studies at concentrations of 2,000, and 4,000 ppm increased the incidence of malignant liver and lung tumors in mice. Three inhalation studies of rats have shown increased incidence of benign mammary gland tumors in female rats at concentrations of 500 ppm and above and increases in benign mammary gland tumors in males at concentrations of 1,500 ppm and above. Rats exposed to 50 and 200 ppm via inhalation showed no increased incidence of tumors. Mice and rats exposed by ingestion at levels up to 250 mg/kg/day lifetime and hamsters exposed via inhalation to concentrations up to 3,500 ppm lifetime did not show an increased incidence of tumors.

The International Agency for Research on Cancer (IARC) has concluded increased incidence of tumors.
The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence for the carcinogenicity of methylene chloride to experimental animals, and inadequate evidence for the carcinogenicity of methylene chloride to humans, resulting in a classification as a 28 animal carcinogen. The NTF has identified methylene chloride as an animal carcinogen. Methylene chloride is listed on the IARC and NTP carcinogen lists but not by OSHA. The State of California has listed methylene chloride under Proposition 65 as a chemical known to the state to cause cancer. Epidemiology studies of 751 humans chronically exposed to methylene chloride in the workplace for a minimum of 20 years did not demonstrate any increase in deaths caused by cancer or cardiac problems. A second study of 2,227 workers confirmed these results.

Reproductive Toxicity: Reproductive toxicity tests have been conducted to evaluate the adverse effects methylene chloride may have on reproduction and offspring of laboratory animals. The results indicate that methylene chloride does not cause birth defects in laboratory

REACTIVITY DATA: Hazardous Polymerization: Can not occur. Stability: Stable

Ctability: Ctable

Incompatibility: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Open flames or welding arcs can cause thermal degradation with the evolution of hydrogen chloride and very small amounts of phospene and chlorine.

SPILL OR LEAK PROCEDURES:

Action to Take for Spills or Leaks:
Small Spills: mop up, wipe up, or soak up immediately. Remove to out of doors.
Large Spills: evacuate area. Contain liquid and transfer to closed

rge Spills: evacuate area. Contain liquid and transfer to closed metal or high density polyethylene containers. Avoid contamination of ground and surface waters. If spill occurs indoors, turn off air conditioning and/or heating system to prevent vapors from

8.

# MATERIAL SAFETY DATASHEET Benco Sales, Inc., P.O. Hox 1215, Crossville, In. 38557 Emergency Phone: 615-484-9578

### PRODUCT NAME: BENCO #87 INDUSTRIAL PAINT REMOVER-Page 3

Disposal Method: Evaporate small quantities in compliance with local, state, and federal regulations. Large quantities may be sent to a licensed reclaimer. Contaminated absorbent material or any contaminated solids are considered hazardous waste and must be disposed of at an approved landfill or incinerator in compliance with local, state and federal regulations. Do not dispose of this material or any waste residue of this material into septic systems, storm drains, or directly onto the ground. HANDLING PRECAUTIONS:

Exposure Guideline: ACGIH TWA is 50 ppm. OBHA TWA is 500 ppm. Ventilation: Controlling airborne concentrations below the ACGIH TLV exposure guideline is recommended. Use only with adequate ventilation. Local exhaust ventilation is necessary for most operations. Lethal concentrations may exist in areas with poor operations. ventilation.

ventilation.
Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. If this level is exceeded, use an approved air purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus.

Skin Protection: Wear chemical resistant rubber gloves, apron, boots, and plastic arm sleeves.

Eye Protection: Use safety glasses. Where contact is likely use chamical solath apparatus.

chamical splash goggles.

liene! Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Any clothing or shoes that have been contaminated should be removed immediately and thoroughly laundered

before wearing again.

Safety Shower and Eyewash Station should be available in work area.

ADDITIONAL INFORMATION:

Special precautions to be taken in Handling and Storage: Exercise

Storage: Exercise DITIONAL INFORMATION:

scial precautions to be taken in Handling and Storage! Exercise
reasonable care and caution. Avoid breathing vapors. Store in a cool
place out of direct sunlight. Concentrated vapors of this product are
heavier than air and will collect in low areas such as pits and
degreasers, storage tanks, and other confined areas. Do not enter
those areas where vapors of this product are suspected unless special
breathing apparatus is used and an observer is present for assistance.
Do not use this product in a tank or vat where the product level is
lower than 12° from the top of the tank. Lethal concentrations of
vapors occur in tanks and every effort should be made to keep from
breathing near or below the top level of the tank.
Do not pressure product out of container with air. When opening
drum, open bung partially and vent any accumulated pressure before
removing bung completely. Empty product containers may contain liquid
or vapor residues of this product. All precautions suggested in this
data sheet apply to empty containers also. Empty containers are
property of Benco Bales, Inc. and should not be sold to individuals or
other parties. Do not repackage this product for resale. Any product
and must be in original container. If each container does not have an
MSDS, call Benco at 800-854-4874. Do not use this product in areas
where contact of vapors with gas flames or hot electric elements can
occur. Please call Benco at 800-854-4874 for advice on proper heating
systems. Contact with flames or electric elements can produce
hydrochloric acid and phosgene fumes which can be fatal.
Overexposure to this product can raise the level of carbon monoxide in
the blood causing cardiovascular stress.

Do not remove or deface labels off containers.

is Material Safety Data Sheet supercedes any previous Material Safety

This Material Safety Data Sheet supercedes any previous Material Safety Data Sheet on this product. Effective date: MARCH 16, 1990.

information accumulated herein is given in good faith and believed to be accurate, but no warranty, expressed or implied, of merchantibility, fitness, or otherwise is made. The suggested procedures are based on experience as of the date of publication. They are not inclusive nor fully adequate in every circumstance. Consult Benco Sales, Inc., for proper handling procedures in specific situations or for any other further information.

	SEC	TION	I. PRODU	CT IDENTIFICATION	2401 B	econstituted		
PF CT NAME	Methylene (	hlori	de	STOCK NO.	2357 E	echnical Grad lectronic/Sea eagent A.C.S	iconducto	
CHEMICAL NAME AND SYNONYMS	Dichloromethane		FORMULA		CH2C12			
HEMICAL FAMILY	Chlorinated CAS# 75092	hydr	ocarbon	EMERGENCY PHONE NO.	(213) 7	(213) 77 <del>6-6</del> 233		
NATIONAL FIRE PROTECTION NSSOCIATION NAZARD DENTIFICATION	AIR QUALITY MANAGE MENT D PHOTOCHEMICAL REACTIVITY  Non-photochemically re (less than 4%)		cally reactive	DEPARTMENT OF TRANSPORTATION HAZARD CLASS  ORM-A		ATION		
	SEC	TION	II. HAZAI	RDOUS INGREDIE	NTS			
MATERIAL Methylene Chlorid		(UNITS)	100	MATERI	AL	TLV (UNITS)	%	
		SECT	ION III. P	HYSICAL DATA				
OILING <b>POINT</b> INE alm.	104°F		FREEZING POINT	-1420	F			
CIFIC GRAVITY 20 = 11	1.320 @ 25/25°C		VAPOR PRESSURE AT 20°C	352.	352.1 mm Hg			
APOR DENSITY AIR = 1)	2.93		SOLUBILITY IN WATER	0.19	0.198			
ERCENT VOLATILES Y VOLUME	100			EVAPORATION RATE	147	147 (CC1 <sub>4</sub> =100)		
PPEARANCE	Colorless 1	iquid	`	ODOR	Somewh	Somewhat ethereal		
	SECTION	V. F	IRE AND E	XPLOSION HAZAR	D DATA			
LASH POINT TEST METHODI	None (T.O.C	.)		FLAMMABLE LIMITS	Upper 1	9 (in air)	- 1	
UTOIGNITION EMPERATURE	1033°F			(4 BY VOLUME)	Lower	2 (in air)		
XTINGUISHI <b>NG</b> IEDIA	Its presence extinguishin			not hinder the	use of an	y standard		
PECIAL IREFIGHTING ROCEDURES				ing apparatus ap		NIOSH. Use v	vater	
MUSUAL PIRE IND XPLOSION HAZARDS		en el	ectric hea	peratures that of iters decompose the same time to the same time to the same time time to the same time time time time time time time ti				
					·			

	。 "我们就是一个人。" 第二人	BECTION V	. HEALTH HAZARD	) A			***
THRESHOLD LIMIT	200ppm		MAXIMUM CONCENTRATION LEVEL	ON 100	00ppn/5	minutes	in 2 hours
FFECTS OF VER EX <b>POSUR</b> E	Skin - prolon dermatitis. I respiratory unconsciousne	nged or repe Breathing - irritation, ass, and eve	irritation, rednesseated contact can contact can contact can contact can contact can contact in asphyxiation. Switting, diarrhea.	ause mo on of v s, fati	derate apors gue, n	irritati can cause ausea, he	on, defatti nasal and adache, pos
MERGENCY AND IRST AID ROCEDURES	with soap and Breathing - i administer or not give stim with fatal re	l water. Rem If affected cygen. If br mulants. Epi	amounts of water.  ove contaminated of remove to fresh air eathing has stopped inephrine or ephedioused - induce vom	lothing r. If b d, give ne may	and lareathin artifications	aunder being is dificial res	fore re-use ficult, piration. D t the heart
		SECTION	IVI. REACTIVITY	ATA	<del>.</del>		
TABILITY	Unstable	X	Stable Hazardous Polyi	nerization	M	y Occur _X	Will Not Occur
	S	ECTION VII.	SPILL OR LEAK PRO	CEDUR	ES		
TEPS TO BE TAKEN F MATERIAL IS RELEASED OR PILLED VASTE DISPOSAL RETHOD	containers. F	Provide adeq	ops, or floor abso wate ventilation a	nd wear	adequa	ste perso	nal
	SECTION	ON VIII. SPI	CIAL PROTECTION I	NFORM	ATION		
RESPIRATORY ROTECTION /ENTILATION	positive pres	sure hose m	SH/MESA approved s asks, air-line mas nical and/or local	k for s	pills o	or extrem	e condition
ROTECTIVE	Polyvinyl ald		limit value. EPROTECTION Chemical safety go	coles	OTHER	PROTECTIVE	er apron
		SECTION I	X. SPECIAL PRECAL	JTIONS	,		
MECAUTIONS TO BE TAKEN IN HANDLING AND STORING	continue to b liquid. Stora equalization. contact with	e hazardous ige tanks sh Vents from strong oxid	ace, bung up and t because they reta ould be adequately indoor tanks shou izing agents (nitr hydroxide, ammonium	in produced vented ld term ic acid	uct rea for fi inate o , perma	idues; valling and outdoors.	apor or d pressure Avoid , etc.),
THER RECAUTIONS	SOLVENT. A vi poured into h occur. Add co RECOMMENDED C	olent erupt ot oil or g ld solvent LEAN-OUT TE	vapor degreaser: Dion may occur simi rease. Severe body in the sorning before MPERATURE or recommuto ignition of	lar to and factors degree degr	the res cial bu resser clean-c	action of arns and/o start-up out speci	cold water or fire may . DO NOT EX fic gravity

### MATERIAL SAFETY DATASHEET Benco Sales, Inc., P. O. Box 1215, Crossville, In. 38557 Energency Phone: 615-484-9578

### PRODUCT NAME: BENCO #B7 INDUSTRIAL PAINT REMOVER

- PRODUCT INFORMATION:
   General or Generic ID: Chlorinated Hydrocarbon, Alcohol Blend
   Trade Name: Benco #B7
   Hazard Classification: Corrosive Liquid
   DOT Shipping Name: Paint Related Material, Corrosive Liquid, NA1760
- 2. HAZARDOUS COMPONENTS:

  INGREDIENT

  Methylene Chloride

  Methanol

  Biodegradable Wetting Agents & Wax

  Note: Methylene Chloride and Methanol are subject to reporting requirements of Section 313 of Title III of the 1986 Superfund Amendments and Reauthorization Act (SARA) and 40CFR Part 372, which apply to businesses with 10 or more employees. Please call Benco regarding reporting quantities at 800-854-4874.
- 3. PHYSICAL DATA:
  Boiling Point (Initial): 104 F
  Vapor Density: 2.93 (air = 1)
  Specific Gravity: 1.180
  Appearance: Colorless liquid
  VOC content: 244 grams/liter

Vapor Pressure: <300 mm Hg Solubility in Water: Emulsifies Percent Volatile by Volume: 95% Odor: Typical Methylene Chloride

- FIRE AND EXPLOSION HAZARD DATA:

  Flash Point: None to boiling point

  Flammable Limits: LFL: Unknown UFL: Unknown

  Extinguishing Media: Water fog

  Fire & Explosion Hazards: May form flammable vapor-air mixtures at temperatures above ambient. Lower temperatures increase the difficulty of ignition.

  Fire-fighting Equipment: Wear positive pressure self contained respiratory equipment due to thermal decompostion products
- HEALTH HAZARD DATA:

  EFFECTS OF OVEREXPOSURE:

  Eyes: Can cause severe irritation and slight corneal injury. Vapors may also irritate eyes. Injury intensifies with extended contact.

  Skin: Prolonged or repeated exposure will cause a burn. The burn will intensify with repeated contact.

  Skin Absorption: A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts.

  Ingestion: Can cause gastrointestinal irritation; nausea, vomiting; diarrhea, blindness, and even death. If aspirated (liquid enters the lung), may be rapidly absorbed through the lungs and result in injury to other body systems.

  Inhalation: Major route of potential exposure. Methylene Chloride
  - Inhalation: Major route of potential exposure. Methylene Chloride depresses the central narvous system. Concentrations between 900-1,000 ppm may cause dizziness or drunkenness. Nausea, headache, and vomiting can occur at concentrations above 2,000 ppm. At 7,000 ppm, numbress and tingling in arms and legs and rapid heartbeat have occurred. Loss of consciousness and death have occurred at levels above 9,000 ppm, if exposure is prolonged. Carboxyhemoglobin levels can be elevated in persons exposed to methylene chloride and can cause a substantial stress on the cardiovascular system. This elevation can be additive to the increase caused by smoking and

other carbon monoxide sources.

Medical Conditions Aggravated By Exposure: Alcoholism, acute and chronic liver disease, chronic lung disease, anemia, coronary disease or rhythm disorders of the heart.

Intice: Reports have associated repeated and prolonged overexposure to solvents to permanent brain and nervous system damage. Persons thought to have heart or respiratory problems should seek medical advice before using solvents of any kind. If signs of allergy develop (breathing difficulty, eye itching, prolonged itching and redness of the skin, headaches, dizziness, etc.) discontinue use of this product immediately and consult a physician. Drinking alcohol before, during, or after exposure to solvents may cause undesirable effects.

# MAILERIAL SAFETY DATASHEET co Sales, Inc., P.O. Box 1215, Crossville, In. 38557 Emergency Phone: 613-484-9578

#### PRODUCT NAME: BENCO #B7 INDUSTRIAL PAINT REMOVER-Page 2

FIRST AID:
Eyes: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.
Skin: Wash off in flowing water or shower. Remove contaminated cloth: Remove contaminated clothing Ingestion: Call physician, poison control center, or hospital emergency room IMMEDIATELY.
Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a

Physician.

NOTE TO PHYSIC AN: Adrenalin should never be given to a person overexposed to methylene chloride.

Chronic Toxicity: The finding of chronic toxic effects in laboratory animals may indicate toxicity to humans. Overexposure should be avoided, failure to do so could result in injury, illness or even death.

Chronic overexposures to methylene chloride have caused liver and kidney toxic effects in experimental animals.

Carcinogenicity: Methylene Chloride has been evaluated for possible cancer causing effects in laboratory animals. Inhalation studies at concentrations of 2,000, and 4,000 ppm increased the incidence of malignant liver and lung tumors in mice. Three inhalation studies of rats have shown increased incidence of benign mammary gland tumors in female rats at concentrations of 500 ppm and above and increases in benign mammary gland tumors in males at concentrations of 1,500 ppm and above. Rats exposed to 50 and 200 ppm via inhalation showed no increased incidence of tumors. Mice and rats exposed by ingestion at levels up to 250 mg/kg/day lifetime and hamsters exposed via inhalation to concentrations up to 3,500 ppm lifetime did not show an increased incidence of tumors.

The International Agency for Research on Cancer (IARC) has concluded increased incidence of tumors. The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence for the carcinogenicity of methylene chloride to experimental animals, and inadequate evidence for the carcinogenicity of methylene chloride to humans, resulting in a classification as a 22 animal carcinogen. The NTF has identified methylene chloride as an animal carcinogen. Methylene chloride is listed on the IARC and NTP carcinogen lists but not by OSHA. The State of California has listed methylene chloride under Proposition 65 as a chemical known to the state to cause cancer. Epidemiology studies of 751 humans chronically exposed to methylene chloride in the workplace for a minimum of 20 years did not demonstrate any increase in deaths caused by cancer or cardiac problems. A second study of 2,227 workers confirmed these results.

Reproductive Toxicity: Reproductive toxicity tests have been conducted to evaluate the adverse effects methylene chloride may have on reproduction and offspring of laboratory animals. The results indicate that methylene chloride does not cause birth defects in laboratory

REACTIVITY DATA: 6.

Hazardous Polymerization: Can not occur. Stability: Stable

Incompatibility! Avoid contact with strong exidizing agents.
Hazardous Decomposition Products! Open flames or welding arcs can cause
thermal degradation with the evolution of hydrogen chloride and very small amounts of phospene and chlorine. SPILL OR LEAK PROCEDURES:

Action to Take for Spills or Leaks: Small Spills: mop up, wipe up, or soak up immediately. of doors. Remove to out

rge Spills: evacuate area. Contain liquid and transfer to closed metal or high density polyethylene containers. Avoid contamination of ground and surface waters. If spill occurs indoors, turn off air conditioning and/or heating system to prevent vapors from Large Spills!

# MATERIAL SAFETY DATA SHEET Benco Sales, Inc., P.O. Fox 1215, Crossville, Tn. 38557 Emergency Phone: 615-484-9378

### PRODUCT NAME: BENCO #B7 INDUSTRIAL PAINT REMOVER-Page 3

Disposal Method: Evaporate small quantities in compliance with local, state, and federal regulations. Large quantities may be sent to a licensed reclaimer. Contaminated absorbent material or any contaminated solids are considered hazardous waste and must be disposed of at an approved landfill or incinerator in compliance with local, state and federal regulations. Do not dispose of this material or any waste residue of this material into septic systems, storm drains, or directly onto the ground. HANDLING PRECAUTIONS:

Exposure Guideline: ACGIH TWA is 50 ppm. OSHA TWA is 500 ppm. Ventilation: Controlling airborne concentrations below the ACGIH TLV exposure guideline is recommended. Use only with adequate ventilation. Local exhaust ventilation is necessary for most operations. Lethal concentrations may exist in areas with poor ventilation.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. If this level is exceeded, use an approved air purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus. Skin Protection: Wear chemical resistant rubber gloves, appon, boots,

and plastic arm sleeves.

Eye Protection: Use safety glasses. Where contact is likely use

chemical splash goggles. Hygienet

lene: Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Any clothing or shoes that have been contaminated should be removed immediately and thoroughly laundered

before wearing again.
Afety Shower and Eyewash Station should be available in work area.
ADDITIONAL INFORMATION:

ADITIONAL INFORMATION:

Special precautions to be taken in Handling and Storage! Exercise reasonable care and caution. Avoid breathing vapors. Store in a cool place out of direct sunlight. Concentrated vapors of this product are heavier than air and will collect in low areas such as pits and degreasers, storage tanks, and other confined areas. Do not enter those areas where vapors of this product are suspected unless special breathing apparatus is used and an observer is present for assistance. Do not use this product in a tank or vat where the product level is lower than 12° from the top of the tank. Lethal concentrations of vapors occur in tanks and every effort should be made to keep from breathing near or below the top level of the tank. Do not pressure product out of container with air. When opening drum, open bung partially and vent any accumulated pressure before removing bung completely. Empty product containers may contain liquid or vapor residues of this product. All precautions suggested in this data sheet apply to empty containers also. Empty containers are property of Benco Bales, Inc. and should not be sold to individuals or other parties. Do not repackage this product for resale. Any product purchased for resale must have this MBDS attached to each container and MBDS; call Benco at 800-854-4874. Do not use this product in areas where contact of vapors with gat flames or hot electric elements can occur. Please call Benco at 800-854-4874 for advice on proper heating systems. Contact with flames or electric elements can produce hydrochloric acid and phospene fumes which can be fatal. Overexposure to this product can raise the level of carbon monoxide in the blood causing cardiovascular stress.

This Material Sefety Data Sheet supercedes any previous Material Safety

This Material Safety Data Sheet supercedes any previous Material Safety Data Sheet on this product. Effective date: MARCH 16, 1990.

information accumulated herein is given in good faith and believed to be accurate, but no warranty, expressed or implied, of merchantibility, fitness, or otherwise is made. The suggested procedures are based on experience as of the date of publication. They are not inclusive nor fully adequate in every circumstance. Consult Benco Sales, Inc., for proper handling procedures in specific situations or for any other further information.

RHO CLENE 45 PAGE 10

DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES OVER 120 DEGREE FARENHEIT.

PRODUCT IS FOR USE AS A COLD CLEANING SOLVENT AT ROOM TEMPERATURE. DO NOT HEAT PRODUCT ABOVE ROOM TEMPERATURE WITH AN EXTERNAL HEAT SOURCE. FIRE OR EXPLOSION MAY OCCUR. DO NOT USE PRODUCT IN A VAPOR DEGREASING MACHINE, SOLVENT DECOMPOSITION AND/OR FIRE MAY OCCUR. USE OF THIS PRODUCT AS AN ATOMIZED SPRAY IS NOT RECOMMENDED. PRODUCT AEROSOLS MAY BE FLAMMABLE OR EXPLOSIVE.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED IS MADE. SINCE THE ACTUAL USE OF THIS PRODUCT BY OTHERS IS BEYOND THE CONTROL OF RHO-CHEM CORPORATION, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THIS PRODUCT.

# **Rho-Chem**

Rho-Chem Corporation 425 Isis Avenue Inglewood, CA 90301

### MATERIAL SAFETY DATA SHEET

Essentially similar to OSHA Form 20 REV. 082279

					REV.	082279		
		SECTION	. PRODU	JCT IDENTIFICATION	2407 KE	constituted		
PRODUCT NAME	Methyle	ne Chloric	le	STOCK NO.	2357 E1	2357 Electronic/Semiconduc		
CHEMICAL NAME AND SYNONYMS	Dichloromethane			FORMULA		CH <sub>2</sub> C1 <sub>2</sub>		
CHEMICAL FAMILY		Chia={makad budwaaarbaa		EMERGENCY PHONE NO.	(213) 77	(213) 776-6233		
NATIONAL FIRE PROTECTION ASSOCIATION HAZARD IDENTIFICATION	AIR QUALITY MANA PHOTOCHEMICAL R		ically reactive ORM-A		ASS	INSPORTATION		
		SECTION I	I. HAZA	RDOUS INGREDIE	NTS		· ·	
MATERIAL		TLV (UNITS)	*	MATERI	AL	TLV (UNITS)	%	
Methylene Chlori	de	100	100					
	<del></del>	SECT	ION III.	PHYSICAL DATA				
IOILING POINT	104°F			FREEZING POINT	-142°F			
PECIFIC GRAVITY	1.320	@ 25/25°C		VAPOR PRESSURE AT 20°C	352.1	352.1 mm Hg		
APOR DENSITY	2.93			SOLUBILITY IN WATER	0.198	0.198		
PERCENT VOLATILES BY VOLUME	100			EVAPORATION RATE	147	147 (CC1 <sub>4</sub> =100)		
APPEARANCE	Colorle	ss liquid		ODOR	Somewha	Somewhat ethereal		
	SECT	ION IV. FI	RE AND E	XPLOSION HAZAR	D DATA			
LASH POINT TEST METHODI	None (T	.o.c.)		FLAMMABLE LIMITS	Upper 1	9 (in air)		
AUTOIGNITION TEMPERATURE	1033°F			(% BY VOLUME) Lower 12 (in air)				
EXTINGUISHING MEDIA		ence in a shing medi		s not hinder the	use of any	standard		
PECIAL TREFIGHTING ROCEDURES				ing apparatus apparatus apparatus control cont		IOSH. Use w	vater	
UNUSUAL FIRE AND EXPLOSION HAZARDS	arcs, an	d open ele	ctric he	peratures that of aters decompose ting vapors.				
-	1							

	81	ECTION V. HEA	ALTH HAZARD .	<b>A</b> .	<b>3</b>
THRESHOLD LIMIT VALUE	200ppm	MAXIM PER DU	UM CONCENTRATION RATION LEVEL	1000ppm/5 minute	s in 2 hours
ECTS OF ER EXPOSURE	Skin - prolonged dermatitis. Brea respiratory irri	or repeated of thing - excess tation, dizzin and even asph	tion, redness, to contact can cause live inhalation of ess, weakness, for syxiation. Swallow diarrhea.	moderate irrita f vapors can cau stigue, nausea, l	tion, defatti se nasal and headache, pos
MERGENCY AND IRST AID ROCEDURES	with soap and wa <u>Breathing</u> - if a <u>administer</u> oxygenot give stimular	ter. Remove co ffected remove n. If breathin nts. Epinephri ts. Swallowed	s of water. Skin ntaminated cloth: to fresh air. If g has stopped, gi ne or ephedine ma - induce vomiting	ing and launder lef breathing is divided in the control of the con	before re-use ifficult, espiration. Dect the heart
		SECTION VI. F	EACTIVITY DATA		
TABILITY	Unstable	X Steble	Hazardous Polymenization	on May Occur _	X Will Not Occur
	SECT	ION VII. SPILL	OR LEAK PROCED	URES	
TEPS TO BE TAKEN F MATERIAL IS RELEASED OR PILLED		ide <mark>ade</mark> quate v	r floor absorbent entilation and we		
STE DISPOSAL ETHOD	Make arrangements facility.	s through a pe	rmatted ISD (Trac	nsport Storage &	Disposal)
	SECTION V	/III. SPECIAL F	ROTECTION INFO	RMATION	
ESPIRATORY ROTECTION	None for normal of	hose masks,	air-line mask for	spills or extre	me condition
POTECTIVE	Provide sufficier exposure below the Polyvinyl alcohol	reshold limit	value.	OTHER PROTECTI	
LOVES	polyethylene	Chemic	al safety cocoles		ber apron
	SE	CTION IX. SPE	CIAL PRECAUTION	is 	
MECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Store drums in a continue to be he liquid. Storage tequalization. Ver contact with strong alkalies	szardous becaus tanka should be nts from indoo ong oxidizing	se they retain pr e sdequately vent r tanks should te agents (nitric ac	oduct residues; ed for filling a erminate outdoors id, permanganate	vapor or and pressure a. Avoid as. etc.).
THER RECAUTIONS	If product is use SOLVENT. A violer poured into hot o occur. Add cold a RECOMMENDED CLEAN Solvent decomposi	of eruption may oil or grease. Solvent in the N-OUT TEMPERATION	y occur similar t Severe body and morning before d ULE or racommends	to the reaction of facial burns and legreaser start-up of clean-out specific to the contract of the contract o	of cold water i/or fire may up. DO NOT EXC ific gravity

# ERIAL SAFETY DATA SHEET es, Inc., P. O. Box 1215 Crossville, In. 38557 Emergency Phone: 615-484-9578

### PRODUCT NAME: BENCO #87 INDUSTRIAL PAINT REMOVER

- PRODUCT INFORMATION: General or Generic ID: Trade Name: Benco #B7 Chlorinated Hydrocarbon, Alcohol Blend Hazard Classification: Corrosive Liquid DOT Shipping Name: Paint Related Material, Corrosive Liquid, NA1760
- HAZARDOUS COMPONENTS: PEL (ACGIH) 50 PPm 200 PPm (OSHA) 500 ppm 200 ppm Methylene Chloride Methanol Biodegradable Wetting Agents & Wax N/A N/A N/A N/A Note: Methylene Chloride and Methanol are subject to reporting requirements of Section 313 of Title II! of the 1986 Superfund Amendments and Reauthorization Act (SARA) and 40CFR Part 372, which apply to businesses with 10 or more employees. Please call Benco regarding reporting quantities at 800-854-4874.
- PHYSICAL DATA:
  Boiling Point (Initial): 104 F
  Vapor Density: 2.93 (air = 1)
  Specific Gravity: 1.180
  Appearance: Colorless liquid
  VOC content: 244 grams/liter

Vapor Pressure: <300 mm Hg Solubility in Water: Emulsifies Percent Volatile by Volume: 95% Odor: Typical Methylene Chloride

FIRE AND EXPLOSION HAZARD DATA:

Plash Point: None to boiling point

Flammable Limits: LFL: Unknown UFL: Unknown

Extinguishing Media: Water fog

Fire & Explosion Hazards: May form flammable vapor-air mixtures at temperatures above ambient. Lower temperatures increase the difficulty of ignition.

Fire-fighting Equipment: Wear positive pressure self contained respiratory equipment due to thermal decompostion products

HEALTH HAZARD DATA:
EFFECTS OF OVEREXPOSURE:
Eyes: Can cause severe irritation and slight corneal injury. Vapors may
also irritate eyes. Injury intensifies with extended contact.
Skin: Prolonged or repeated exposure will cause a burn. The burn will intensify with repeated contact.

intensify with repeated contact.

Skin Absorption: A single prolonged exponure is not likely to result in the material being absorbed through skin in harmful amounts.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting, diarrhea, blindness, and even death. If aspirated (liquid enters the lung), may be rapidly absorbed through the lungs and result in injury to other body systems.

Inhalation: Major route of potential exposure. Methylene Chloride depresses the central nervous system. Concentrations between 920-1,000 ppm may cause dizziness or drunkenness. Nausea, headache, and vomiting can occur at concentrations above 2,000 ppm. At 7,000 ppm, numbress and tingling in arms and legs and rapid heartbeat have occurred. Loss of consciousness and death have occurred at have occurred. Loss of consciousness and death have occurred at levels above 9,000 ppm, if exposure is prolonged. Carboxyhemoglobin levels can be elevated in parsons exposed to methylene chloride and can cause a substantial stress on the cardiovascular system. This elevation can be additive to the increase caused by smoking and

elevation can be additive to the increase caused by smoking and other carbon monoxide sources.

Medical Conditions Aggravated By Exposure: Alcoholism, acute and chronic liver disease, chronic lung disease, anemia, coronary disease or rhythm disorders of the heart.

Motical Reports have associated repeated and prolonged overexposure to motical Reports have associated repeated and prolonged overexposure to

solvents to permanent brain and nervous system damage. Persons thought to have heart or respiratory problems should seek medical advice before using solvents of any kind. If signs of allergy develop (breathing difficulty, eye itching, prolonged itching and redness of the skin, headaches, dizziness, etc.) discontinue use of this product immediately and consult a physician. Drinking alcohol before, during, or after exposure to solvents may cause undesirable effects.

# MATERIAL SAFETY DATA SHEET CO Sales, Inc., P.O. Box 1215, Crossville, Th. 38557 Emergency Phone: 613-484-9378

#### PRODUCT NAME: BENCO #B7 INDUSTRIAL PAINT REMOVER-Page 2

FIRST ALD: est Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

The wash off in flowing water or shower. Remove contaminated clothers wash before review. Eyest Remove contaminated clothing physician, poison control center, or hospital emergency If not breathing, give artificial fficult, give oxygen. Call a

physician.
NOTE TO PHYSIC:AN: Adrenalin should never be given to a person overexposed to methylene chloride.

TOXICITY: Chronic Toxicity: The finding of chronic toxic effects in laboratory animals may indicate toxicity to humans. Overexposure should be avoided, failure to do so could result in injury, illness or even death.

Chronic overexposures to methylene chloride have caused liver and kidney toxic effects in experimental animals.

Carcinogenicity: Methylene Chloride has been evaluated for possible cancer causing effects in laboratory animals. Inhalation studies at concentrations of 2,000, and 4,000 ppm increased the incidence of malignant liver and lung tumors in mice. Three inhalation studies malignant liver and lung tumors in mice. Three inhalation studies of rats have shown increased incidence of benign mammary gland tumors in famale rats at concentrations of 500 ppm and above and increases in benign mammary gland tumors in males at concentrations of 1,500 ppm and above. Rats exposed to 50 and 200 ppm via inhalation showed no increased incidence of tumors. Mice and rats exposed by ingestion at levels up to 250 mg/kg/day lifetime and hamsters exposed via inhalation to concentrations up to 3,500 ppm lifetime did not show an increased incidence of tumors. The International Agency for Research on Cascar (1400) have increased incidence of tumors. The International Agency for Research on Cancer (IARC) has concluded that there is sufficient evidence for the carcinogenicity of methylene chloride to experimental animals, and inadequate evidence for the carcinogenicity of methylene chloride to humans, resulting in a classification as a 22 animal carcinogen. The NTF has identified methylene chloride as an animal carcinogen. Methylene chloride is listed on the IARC and NTP carcinogen lists but not by OSHA. The State of California has listed methylene chloride under Proposition 65 as a chemical known to the state to cause cancer. Epidemiology studies of 751 humans chronically exposed to methylene chloride in the workplace for a minimum of 20 years did not demonstrate any increase in deaths caused by cancer or cardiac problems. A second study of 2,227 workers confirmed these results.

Reproductive Toxicity: Reproductive toxicity tests have been conducted to evaluate the adverse effects methylene chloride may have on reproduction and offspring of laboratory animals. The results indicate that methylene chloride does not cause birth defects in laboratory

REACTIVITY DATA:

Hazardous Polymerization: Can not occur.

Ctability: Stable
Incompatibility: Avoid contact with strong exidizing agents.
Hazardous Decomposition Products: Open flames or welding arcs can cause thermal degradation with the evolution of hydrogen chloride and very small amounts of phospene and chlorine. SPILL OR LEAK PROCEDURES: Action to Take for Spills or Leaks!

Small Spills: mop up, wipe up, or soak up immediately.
of doors. Remove to out

rge Spills: evacuate area. Contain liquid and transfer to closed metal or high density polyethylene containers. Avoid contamination of ground and surface waters. If spill occurs indoors, turn off air conditioning and/or heating system to prevent vapors from Large Spills!

# TERIAL BAFETY DAIA 6 HEET Sales, Inc., P.O. Rox 1215, Crossville, In. 38557 Emergency Phone: 615-484-9378

#### PRODUCT NAME! BENCO #87 INDUSTRIAL PAINT REMOVER-Page 3

Disposal Method: Evaporate small quantities in compliance with local, state, and federal regulations. Large quantities may be sent to a licensed reclaimer. Contaminated absorbent material or any contaminated solids are considered hazardous waste and must be disposed of at an approved landfill or incinerator in compliance with local, state and federal regulations. Do not dispose of this material or any waste residue of this material into septic systems, storm drains, or directly onto the ground. storm drains, or d or directly onto the ground.

Exposure Guideline: ACGIH TWA is 50 ppm. OSHA TWA is 500 ppm. Ventilation: Controlling airborne concentrations below the ACGIH TLV exposure guideline is recommended. Use only with adequate ventilation. Local exhaust ventilation is necessary for most operations. Lethal concentrations may exist in areas with poor operations. ventilation.

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. If this level is exceeded, use an approved air purifying respirator. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive pressure self-contained breathing apparatus.

Skin Protection: Wear chemical resistant rubber gloves, apron, boots,

and plastic arm sleeves.

Eye Protection! Use safety glasses. Where contact is likely use

chemical splash goggles. iene: Avoid contact with skin and avoid breathing vapors. Do not eat, drink, or smoke in work area. Wash hands prior to eating, drinking, or using restroom. Any clothing or shoes that have been contaminated should be removed immediately and thoroughly laundered Hugienes

before wearing again.
fety Shower and Eyewash Station should be available in work area.
DUITIONAL INFORMATION:

Special precautions to be taken in Handling and Storage: Exercise reasonable care and caution. Avoid breathing vapors. Store in a cool place out of direct sunlight. Concentrated vapors of this product are heavier than air and will collect in low areas such as pits and degreasers, storage tanks, and other confined areas. Do not enter those areas where vapors of this product are suspected unless special breathing apparatus is used and an observer is present for assistance. Do not use this product in a tank or vat where the product level is lower than 12° from the top of the tank. Lethal concentrations of vapors occur in tanks and every effort should be made to keep from breathing near or below the top level of the tank.

Do not pressure product out of container with air. When opening drum, open bung partially and vent any accumulated pressure before removing bung completely. Empty product containers may contain liquid or vapor residues of this product. All precautions suggested in this data sheet apply to empty containers also. Empty containers are property of Benco Bales, Inc. and should not be sold to individuals or other parties. Do not repackage this product for resale. Any product purchased for resale must have this MSDS attached to each container and must be in original container. If each container does not have an MSDS, call Benco at 800-834-4874. Do not use this product in areas Purchased for resale must have this MSDS attached to each container and must be in original container. If each container does not have an MSDS, call Benco at 800-854-4874. Do not use this product in areas where contact of vapors with gas flames or hot electric elements can occur. Please call Benco at 800-854-4874 for advice on proper heating systems. Contact with flames or electric elements can produce hydrochloric acid and phosgene fumes which can be fatal. Overexposure to this product can raise the level of carbon monoxide in the blood causing cardiovascular stress.

This Material Safety Data Sheet supercedes any previous Material Safety Data Sheet on this product. Effective date: MARCH 16, 1990.

information accumulated herein is given in good faith and believed to accurate, but no warranty, expressed or implied, of merchantibility, fitness, or otherwise is made. The suggested procedures are based on experience as of the date of publication. They are not inclusive nor fully adequate in every circumstance. Consult Benco Sales, Inc., for proper handling procedures in appecific situations or for any other further information.

### MATERIAL SAFETY DATA SHEET

RHO-CHEM CORP. 425 ISIS AVE. INGLEWOOD, CA 90301 (213)776-6233

RHO CLENE 45 EFFECTIVE 8-20-86 PAGE 1

#### IDENTIFICATION

PRODUCT: RHO CLENE 45

CHEMICAL FAMILY: SOLVENT BLEND

SYNONYM: N/A STOCK NUMBERS:

TECHNICAL GRADE: 7445

RECONSTITUTED GRADE: N/A

ELECTRONIC/SEMI GRADE: N/A

A.C.S. REAGENT GRADE: N/A

### DEPARTMENT OF TRANSPORTATION (DOT) IDENTIFICATION

DOT PROPER SHIPPING NAME: FLAMMABLE LIQUID. NOS DOT HAZARD CLASS: FLAMMABLE LIQUID DOT IDENTIFICATION NUMBER: UN 1993

HAZARDOUS WASTE IDENTIFICATION

WASTE NUMBER: US EPA DOO1

CALIFORNIA: 214

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT: THIS CHEMICAL IS NOT PHOTOCHEMICALLY REACTIVE

SECTI	ON 2	PRODUCT/0	PRODUCT/COMPOSITION DATA			
COMPO	NENT #	COMPONENT	CAS NUMBER	VOL/PERCENT		
RHO C	LENE 45			100.0		
1	ISOPROPYL	ALCOHOL	67-63-0	37.0		
2	PARAFFINS	AND NAPHTHENES	647 <b>42-89-8</b> .	20.0		
3	ACETONE		67-64-1	20.0		
4	METHYL ET	THYL KETONE	7 <b>8-93-3</b>	13.0		
5	TOLUENE		108-88-3	5.0		
6	XYLENE		1330-20-7	5.0		
7	BLUE DYE		N/A	TRACE		
				100.0		

\*COMPOSITION MAY VARY

### RHO CLENE 45 PAGE 2

	TION 3		PHYSICAL DATA	
BO I		SPECIF GRAVIT (25/25)	Υ	SOLUBILITY IN WATER @25C (WT %)
	133-382F	0.79		<b>68.</b> 0
PRE	NPOR ( SSURE ] ( Hg )	VAPOR DENSITY IN AIR (AIR=1)	% VOLATILE BY VOLUME	EVAPORATION RATE n-BUTYL ACETATE = 1
85	@ 68F	2.5	100	3.0
OE	OOR: MILD OF	.UE CLEAR LIQUID OOR  HEALTH II		THE BATTING
<b></b>				
HAZ	ARDUUS MATER	RIALS IDENTIFICAT	IUN SYSTEMS (HI	mis)
HEA	LTH (3)		FIRE (4)	•
REA	CTIVITY (0)	· .	PERSONAI	L PROTECTION (C) SAFETY GLASSES GLOVES / APRON
SEC	TION 4B	HEALTH INFOR	MATION-ACUTE TO	DXICITY DATA
COMF	ONENT # AC	CUTE ORAL LD50	ACUTE DERMAL I	LD50 ACUTE INHALATION LC50
1 2 3 4 5	RA S RA	NT: 5.8 G/KG N/A NT: 9.75 G/KG NT: 3.4 G/KG NT: 5.0 G/KG	RABBIT: 8 ML/	KG RAT: 64000 PPM/4HR N/A B/KG RAT: 16,000 PPM/4HR KG RAT: 8,000 PPM/8HR KG RAT: 8000 PPM/4HR ML/KG RAT: 6700 PPM/4HR

OMPONENT	(06)	HA)	(AC	BIH)
•	PEL/TWA	PEL CEILING	TLV/TWA	TLV/STEL
1	400 PPM		400 PPM	500 PPM
2	430 PPM EST	T	430 PPM	
3	750 PPM	3000 PPM	750 PPM	1000 PPM
4	200 PPM		200 PPM	300 PPM
5	100 PPM	500 PPM	100 PPM	150 PPM
6	100 PPM	300 PPM	100 PPM	150 PPM

EFFECTS DESCRIBED IN THIS SECTION ARE BELIEVED NOT TO OCCUR IF EXPOSURES TO THE PRODUCT ARE MAINTAINED AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C. PREEXISTING SKIN, EYE, AND RESPIRATORY DISORDERS MAY BE ABGRAVATED BY EXPOSURE.

POTENTIAL ROUTE OF	ENTRY:		
INHALATION _	X	SKIN	INGESTION

### INHALATION:

VAPORS MAY BE IRRITATING TO THE NOSE, THROAT AND RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

### SKIN:

LIQUID IS IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN TO BECOME REDDENED, ROUGH, AND DRY DUE TO THE REMOVAL OF NATURAL DILS, AND MAY RESULT IN DERMATITIS.

### EYES:

LIQUID IS SEVERELY IRRITATING TO THE EYES.

LIQUID CAUSES TEMPORARY PAINFUL BURNING SENSATION, TEARING, GENERAL INFLAMMATION, AND BLURRED VISION.

HIGH VAPOR CONCENTRATION MAY ALSO CAUSE IRRITATION.

### INGESTION:

LIQUID IS TOXIC AND MAY BE HARMFUL IF SWALLOWED.

MAY PRODUCE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

SWALLOWING PRODUCT MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.

ASPIRATION (BREATHING) OF VOMITUS INTO THE LUNGS MUST BE AVOIDED AS EVEN SMALL QUANTITIES MAY RESULT IN ASPIRATION PNEUMONITUS AND SYSTEMIC EFFECTS.

SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE:

INTENTIONAL ABUSE, MISUSE, OR OTHER MASSIVE EXPOSURE MAY RESULT IN DIFFICULT BREATHING, NAUSEA, VOMITING AND HEADACHE. COMA AND/OR DEATH ARE POSSIBLE.

CENTRAL NERVOUS SYSTEM DEPRESSION RANGES FROM LIGHT HEADEDNESS TO UNCONSCIOUSNESS AND DEATH. CNS DEPRESSION IS EVIDENCED BY GIDDINESS, DIZZINESS. AND NAUSEA.

ASPIRATION PNEUMONITUS MAY BE EVIDENCED BY COUGHING, LABORED BREATHING AND CYANOSIS (BLUISH SKIN). IN SEVERE CASES DEATH MAY OCCUR.

SECTION 4E

### SUPPLEMENTAL HEALTH INFORMATION

IS THE PRODUCT OR A COMPONENT OF THE PRODUCT LISTED AS A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) OR IS IT THE SUBJECT OF A HAZARD EVALUATION SYSTEM AND INFORMATION SERVICE (HESIS) HAZARD ALERT?

COMPONENT NUMBER	NTP CARCINOGEN	OSHA CARCINOGEN	IARC CARCINOGEN	HESIS HAZARD ALERT
1	NO	NO	NO	NO
2	NO	NO	NO	NO
3	NO	NO	NO	NO
4 .	NO	NO	NO	NO
5	NO	NO	NO	NO
6	NO	NO	NO	NO

### COMPONENT INFORMATION

### ISOPROPYL ALCOHOL

IN RATS: 1) LIVER AND KIDNEY ENLARGEMENT HAS BEEN SEEN AT LEVELS >6250 PPM IN DRINKING WATER. 2) ANEMIA HAS BEEN SEEN AT 12500 AND 25000 PPM IN DRINKING WATER.

### PARAFFINS AND NAPHTHENES

·大大型 经工程 医水体

MALE RATS EXPOSED FOR 90 DAYS BY INHALATION TO VAPORS OF SIMILAR SOLVENTS SHOWED EVIDENCE OF KIDNEY DAMAGE. THE RELEVANCE OF THIS EFFECT TO MAN IS UNKNOWN. IN ONE OF THE STUDIES A LOW GRADE ANEMIA WAS ALSO OBSERVED.

### TOLUENE

WHILE THERE IS NO EVIDENCE THAT INDUSTRIALLY ACCEPTABLE LEVELS OF TOLUENE VAPORS (E.G. THE TLV) HAVE PROLONGED CARDIAC EFFECTS IN HUMANS. ANIMAL STUDIES HAVE SHOWN THAT INHALATION OF HIGH LEVELS OF TOLUENE PRODUCED CARDIAC SENSITIZATION. SUCH SENSITIZATION MAY CAUSE FATAL CHANGES IN HEART RHYTHMS. THIS LATTEF EFFECT WAS SHOWN TO BE ENHANCED BY HYPOXIA OR THE INJECTION OF ADRENALIN-LIKE AGENTS. RATS EXPOSED TO 1400 PPM OR 1200 PPM OF TOLUENE FOR 14H/DAY FOR 4 OR 5 WEEKS (RESPECTIVELY) EXHIBITED HIGH FREQUENCY HEARING DEFICITS. THE SIGNIFICANCE OF THIS INFORMATION TO MAN IS UNKNOWN.

LABORATORY ANIMALS EXPOSED BY VARIOUS ROUTES TO HIGH DOSES OF XYLENE SHOWED EVIDENCE OF EFFECTS IN THE LIVER, KIDNEYS, LUNGS, SPLEEN, HEART AND ADRENALS. RATS EXPOSED TO XYLENE VAPOR DURING PREGNANCY SHOWED EMBRYO/FETOTOXIC EFFECTS. MICE EXPOSED ORALLY TO DOSES PRODUCING MATERNAL TOXICITY ALSO SHOWED EMBRYO/FETOTOXIC EFFECTS.

### ACETONE

NO SUPPLEMETAL HEALTH INFORMATION HAS BEEN INDENTIFIED.

#### METHYL ETHYL KETONE

IN FEMALE RATS EXPOSED BY INHALATION TO OVER 1000 PPM (5X'S THE DSHA-PEL/TWA) MINOR EMBRYOTOXIC/FETOTOXIC EFFECTS WERE OBSERVED.

METHYL ETHYL KETONE HAS BEEN DEMONSRITATED TO POTENTIATE (I.E. SHORTEN THE TIME OF ONSET) THE PERIPHERAL NEUROPATHY CAUSED BY EITHER N-HEXANE OR METHYL N-BUTYL KEOTNE. MEK BY ITSELF HAS NOT BEEN DEMONSRITATED TO CAUSE PERIPHERAL NEUROPATHY.

### SECTION 5

### EMPLOYEE PROTECTION

### **VENTILATION:**

MAINTAIN WORKPLACE VAPOR CONCENTRATIONS AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C.

#### PROTECTIVE MEASURES FOR MAINTENANCE:

EXERCISE REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. STORE IN A COOL PLACE. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE. DO NOT PRESSURE PRODUCT OUT OF VESSEL OR TRANSPORT CONTAINER WITH AIR.

### RESPIRATORY PROTECTION:

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION 4C) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXFOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

### SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. WHEN PROLEINGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS GLOVES, BOOTS, APRON OR FULL-BODY SUIT WILL DEPEND ON OPERATION.

### EYE PROTECTION:

USE SAFETY GLASSES. WHERE CONTACT WITH LIQUID IS LIKELY, CHEMICAL GOGGLES ARE RECOMMENDED BECAUSE EYE CONTACT WITH THIS MATERIAL MAY CAUSE PAIN, EVEN THOUGH IT IS UNLIKELY TO CAUSE INJURY. CONTACT LENSES SHOULD NOT BE WORN.

### HYBIENE:

AVOID CONTACT WITH SKIN AND AVOID BREATHING VAPORS. DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING, DRINKING, OR USING RESTROOM.

SECTION 6

EMERGENCY AND FIRST AID

### EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

### SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING/SHOES ANI: WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.

### INHALATION:

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

### INGESTION:

DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. GET MEDICAL ATTENTION. SEE NOTE TO PHYSICIAN.

### NOTE TO PHYSICIAN:

BECAUSE RAPID ABSORPTION MAY OCCUR THROUGH LUNGS IF ASFIRATED AND CAUSE SYSTEMIC EFFECTS, THE DECISION OF PHYSICIAN. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL. DANGER FROM LUNG ASPIRATION MUST BE WEIGHED AGAINST TOXICITY WHEN CONSIDERING EMPTYING THE STOMACH. IF BURN IS PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION. EXPOSURE MAY INCREASE "MYOCARDIAL IRRITABILITY". DO NOT ADMINISTER SYMPATHOMIMETIC DRUGS UNLESS ABSOLUTELY NECESSARY. NO SPECIFIC ANTIDOTE. SUPPORTIVE CARE. TREATMENT BASED ON JUDGEMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT.

## SECTION 7

## FIRE AND EXPLOSION HAZARDS

FLASH POINT: <70 F

FLAMMABLE LIMITS: VOLUME IN AIR UPPER LIMITS: 12.8% LOWER LIMITS: 1.0%

### EXTINGUISHING MEDIA:

USE WATER FOG, FOAM, DRY CHEMICAL OR CARBON DIOXIDE. DO NOT USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT AND CAN BE REIGNITED ON SUFACE OF WATER.

SPECIAL FIRE FIGHTING PROCEDURES AND FRECAUTIONS:

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS) INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

SECTION 8

REACTIVITY

STABILITY: THIS PRODUCT IS STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

AVOID CONTACT WITH STRONG ALKALIES SUCH AS SODIUM HYDROXIDE AND CONTACT WITH STRONG MINERAL ACIDS SUCH AS SULFURIC, HYDROCHLORIC AND NITRIC ACIDS.

AVOID CONTACT WITH ALUMINUM SURFACES. IF THE ALUMINUM OXIDE SURFACE FILM IS REMOVED, RELEASE OF HYDROGEN GAS CAN RESULT.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION 9

# SPILL AND DISPOSAL PRACTICES

SPILL:

EVACUATE THE AREA, VENTILATE, AND AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA (WEAR PROTECTIVE EQUIPMENT) BY MOPPING OR WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND AND SURFACE WATERS. DO NOT FLUSH TO SEWER.

WASTE DISPOSAL:

RECOVERED LIQUIDS MAY BE SENT TO A LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED PROCEDURES.

SECTION 10

### SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHT, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE: FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED. CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS.

STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

HANDLING AND STORAGE:

HANDLE WITH REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBERVER IS PRESENT FOR ASSISTANCE.

STORE DRUMS IN A COOL PLACE, BUNG UP AND TIGHTLY CLOSED. STORAGE TANKS SHOULD BE ADEQUATELY VENTED FOR FILLING AND PRESSURE EQUALIZATION. VENTS FROM INDOOR TANKS SHOULD TERMINATE OUTDOORS.

DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES OVER 120 DEGREE FARENHEIT.

PRODUCT IS FOR USE AS A COLD CLEANING SOLVENT AT ROOM TEMPERATURE. DO NOT HEAT PRODUCT ABOVE ROOM TEMPERATURE WITH AN EXTERNAL HEAT SOURCE. FIRE OR EXPLOSION MAY OCCUR. DO NOT USE PRODUCT IN A VAPOR DEGREASING MACHINE, SOLVENT DECOMPOSITION AND/OR FIRE MAY OCCUR. USE OF THIS PRODUCT AS AN ATOMIZED SPRAY IS NOT RECOMMENDED. PRODUCT AEROSOLS MAY BE FLAMMABLE OR EXPLOSIVE.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED IS MADE. SINCE THE ACTUAL USE OF THIS PRODUCT BY OTHERS IS BEYOND THE CONTROL OF RHO-CHEM CORPORATION, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THIS PRODUCT.

MATERIAL SAFETY DATA

MANUFACTURER'S NAME:

INAL PAINT 1329 POTRERO AVE SOUTH EL MONTE, CA 91733

DATE OF PREPARATION: 12-12-1988

EMERGENCY TELEPHONE NO .:

(818) 444-9274 Upto 120gal INFORMATION TELEPHONE NO. 1

(818) 444-9274

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: R602

PRODUCT NAME: 1600-02 POLYURETHANE REDUCER

PRODUCT CLASS: SOLVENT BLEND

SECTION II - HAZARDOUS INGREDIENTS

OCCUPATIONAL VAPOR PRESSURE CAS NUMBER PERCENT INGREDIENT mm Hg a TEMP EXPOSURE LIMITS TYL ACETATE- U.G. 45 123-86-4 OSHA TWA: 150 PPM 10.0 200 METHYL ETHYL KETONE U.G. (2-BUTANONE) 78-93-3 70.0 200 ACGIH/TLV: 200 PPM METHYL AMYL KETONE U.G. (2-HEPTANONE) 110-43-0 30 200 OSHA TWA: 100 PPM

SECTION III - PHYSICAL DATA

BOILING RANGE: 175-300 DEG

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER % VOLATILE VOLUME: 100.00 WT/GAL: 7.03

WARNING: THIS PRODUCT CONTAINS A CHEMICAL (S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER OR BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM."

> FOR CHEMICAL EMERGENCIES INVOLVING APILL LEAK, FIRE, EXPOSURE OR ACCIDENT PHONE CHEMTREC Toll Free + Day or Night 800 - 424-9300

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Flammable Liquid - Class IB

FLASH POINT: 24 DEG F (TOC)

LEL: 1.1

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG,

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

GROUND CONTAINERS, KEEP AWAY FROM SOURCES OF IGNITION

#### SPECIAL FIREFIGHTING PROCEDURES:

SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

### SECTION V - HEALTH HAZARD DATA

## EFFECTS OF OVEREXPOSURE:

EYES-CAN CAUSE SEVERE IRRITATION, REDNESS, TEARING, BLURRED VISION.
SKIN-PROLONGED CONTACT CAN CAUSE MODERATE IRRITATION, DEFATTING, DERMATITIS.
INHALATION-NASAL IRRITATION, DIZZINESS, WEAKNESS, NAUSEA, HEADACHE, UNCONSCIOUSNESS.
INGESTION-CAN CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.

## MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

NONE

PRIMARY ROUTE(S) OF ENTRY: DERMAL, INHALATION,

### EMERGENCY AND FIRST AID PROCEDURES:

EYES-FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
SKIN-WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING.
INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN.
IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION.
INGESTION-DO NOT INDUCE VOMITING.KEEP PERSON WARM, QUIET, AND GET MEDICAL HELP.

## SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

NONE

## HAZARDOUS DECOMPOSITION PRODUCTS:

BURNING MAY PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE FUMES.

### CONDITIONS TO AVOID:

AVOID EXTREME TEMPERATURES.

## INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZERS.

### SECTION VII - SPILL OR LEAK PROCEDURES

## STAS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

REAR TO SECTIONS IV, V, VI, AND VII. ELIMINATE ALL IGNITION SOURCES, ABSORB

### WASTE DISPOSAL METHOD:

DESTROY BY LIQUID INCINERATION IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTAMINATED ABSORBANT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH LOCAL, STATE. AND FEDERAL REGULATIONS.

### SECTION VIII - SAFE HANDLING AND USE INFORMATION

### RESPIRATORY PROTECTION:

IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF ENVIROMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER.) ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

### **VENTILATION:**

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV (S).

### PROTECTIVE GLOVES:

WE RESISTANT GLOVES SUCH AS: POLYVINYL ALCOHOL COATED OR POLYETHYLENE.

#### EYE PROTECTION:

OSHA APPROVED CHEMICAL SPLASH GOGGLES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

## OTHER PROTECTIVE EQUIPMENT:

PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH GB PROTECTIVE HANDCREAM, WEAR IMPERVIOUS CLOTHING AND CHEMICAL RESISTANT BOOTS.

## HYGIENIC PRACTICES:

"WASH HANDS BEFORE EATING OR USING REST ROOM, SMOKE IN SMOKING AREAS ONLY."

### SECTION IX - SPECIAL PRECAUTIONS

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUALS (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

## OTHER PRECAUTIONS:

OVEREXPOSURE HAS APPARENTLY BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: LIVER ABNORMALITIES, KIDNEY DAMAGE, LUNG DAMAGE. ALSO OVEREXPOSURE TO THE MATERIAL HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: CARDIAC ABNORMALITY, LIVER ABNORMALITIES, KIDNEY DAMAGE, AND LUNG DAMAGE.

SECTION X - SUSPECTED CARCINOGEN
SUSPECTED CANCER AGENT?  X NO: THIS PRODUCT'S INGREDIENTS ARE NOT FOUND IN THE LIST BELOW.
YES: FEDERAL OSHANTPIARCCAL/OSHA (SEE BELOW)
NOTE: CALIFORNIA EMPLOYERS USING CAL/OSHA-REGULATED CARCINOGENS MUST REGISTER WITH CAL/OSHA.
SECTION XI - SHIPPING INFORMATION
D.O.T. SHIPPING NAME  TECHNICAL SHIPPING NAME  D.O.T. HAZARD CLASSIFICATION  UN/NA NUMBER  D.O.T. LABELS REQUIRED  FLAMMABLE  FLASH POINT  124°F (TCC)  H.M.I.S. RATINGS: HEALTH 2 FLAMMABILITY 3 REACTIVITY 0
SECTION XII - E. P. A. INFORMATION
VOC CONTENT: (AS SUPPLIED) GRAMS/LITER LBS/GAL
EXCLUDING EXEMPT SOLVENTS 844 7.03
INCLUDING EXEMPT SOLVENTS 844 7.03
WATER PER VOLUME 0 % 1,1,1-TRICHLOROETHANE PER VOLUME 0 %
VOC VAPOR PRESSURE @ mmHg @ 20° C (estimated) 30.5
COMMENTS NON-PHOTOCHEMICALLY REACTIVE PER RULE 66.
THE INFORMATION CONTAINED HEREIN IS BASED UPON TECHNICAL DATA CONSIDERED TO BE TRUE AND ACCURATE. HOWEVER, CARDINAL INDUSTRIAL FINISHES MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OR ADEQUACY OF THIS INFORMATION. THIS DATA IS OFFERED SOLEY FOR THE USER'S CONSIDERATION, INVESTIGATION AND VERIFICATION. FORM PREPARED BY And A. Stewart

REGULATORY TECHNICIAN

MATERIAL SAFETY DATA SHEET (+60094)

MANUFACTURER'S NAME:

COMINAL PAINT 1329 POTRERO AVE

SOUTH EL MONTE, CA 91733

DATE OF PREPARATION: 12-19-1988

EMERGENCY TELEPHONE NO .:

(818) 444-9274

INFORMATION TELEPHONE NO .:

(818) 444-9274

## SECTION I - PRODUCT IDENTIFICATION

PRODUCT NUMBER: 8100

PRODUCT NAME: 8100 W/R BAKING ENAMEL SERIES

PRODUCT CLASS: WATERBORNE BAKING ENAMEL

FOR CHEMICAL EMERGENCIES INVOLVING SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT PHONE CHEMTREC Toll Free + Day or Night 800 - 424-9300

## SECTION II - HAZARDOUS INGREDIENTS

OCCUPAT I ONAL	VAPOR PRESSURE			WEIGHT	
INGREDIENT	VAPOR FRES	DUKE	CAS NUMBER	PERCENT	
EXPOSURE LIMITS	mm Hg a	TEMP			
NIUM DIOXIDE			13463-67-7	15	
OSHA TWA 15mg/M3	0.0	50C	108-01-0	/ 5 01/	
DIMETHYLETHANOLAMINE (DMEA) NOT ESTABLISHED	4.0	<b>5</b> 0C	108-01-0	< 5.0%	
BUTYL CELLOSOLVE (ETHYLENE GLYCOL			111-76-2	5	
ACGIH/TLV TWA: 25 PPM	0.6	<b>50C</b>			
·					

## SECTION III - PHYSICAL DATA

BOILING RANGE: 212 DEG F

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE: SLOWER THAN ETHER % VOLATILE VOLUME: 63.30 WT/GAL: 11.30

\*WARNING: THIS PRODUCT CONTAINS A
CHEMICAL (S) KNOWN TO THE STATE OF
CALIFORNIA TO CAUSE CANCER OR BIRTH
DEFECTS OR OTHER REPRODUCTIVE HARM."

### SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: Combustible Liquid - Class IIIB

FLASH POINT: ABOVE 212 DEG F TCC LEL: 1.0

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.

### UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS MAY EXPLODE WHEN EXPOSED TO SEVERE HEAT OF FIRE. DECOMPOSITION OF PRODUCE DURING FIRE MAY PRODUCE TOXIC FUMES.

## SPECIAL FIREFIGHTING PROCEDURES:

and the second of the Miles

SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

## SECTION V - HEALTH HAZARD DATA

### EFFECTS OF OVEREXPOSURE:

EYES-CAN CAUSE IRRITATION, REDNESS, TEARING OR BLURRED VISION. SKIN-MILD IRRITATION, PROLONGED EXPOSURE MAY BE TOXIC. INHALATION-NASAL IRRITATION, HEADACHE, DIZZINESS, NAUSEA, VOMITING. INGESTION-MODERATELY TOXIC. MAY CAUSE HEADACHE, NAUSEA, VOMITING AND WEAKNESS.

# MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:

NONE

PRIMARY ROUTE(S) OF ENTRY: DERMAL, INHALATION,

#### EMERGENCY AND FIRST AID PROCEDURES:

EYES-FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY. SKIN-WASH EXPOSED AREA WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. INHALATION-REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION. INGESTION-INDUCE VOMITING, KEEP PERSON WARN AND QUIET. GET MEDICAL ATTENTION.

## SECTION VI - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR NONE

### HAZARDOUS DECOMPOSITION PRODUCTS:

BURNING MAY PRODUCE CARBON DIOXIDE AND/OR CARBON MONOXIDE.

## CONDITIONS TO AVOID:

EXTREMELY HIGH TEMPERATURES.

## INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTAMINATION WITH ALKALIES.

THRESHOLD LIMIT VALUE See Section II EFFECTS OF CVEREXPOSURE Hinor eye and respiratory tract irritation possible. Slight skin sensitization possible. CHRONIC. EMERGENCY AND FIRST AID PROCEDURES Eye Contact: Flush immediately with plenty of water for 15 min Ingestion: Obtain medical attention immediately. Inhalation: Remove from area to fresh air. Skin Contact: Wash thoroughly with soap and water. Section VI — REACTIVITY DATA STABILITY UNSTABLE TO STABLE CONDITIONS TO AVOID INCOMPATABILITY (Malenais to avoid) Unknown on the management of the companies of th MAZARGOUS DECOMPOSITION PRODUCTS CO MAY OCCUR X WILL NOT OCCUR MOITASIREMYJOR BUDDRASAH CONCITIONS TO AVOID Section VII — SPILL OR LEAK PROCEDURES STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED Sweep up carefully. MASTEDISPOSAL METHOD Dispose as solid waste in accordance with local, state, and federal regulations. Do not incinerate closed containers. Section VIII - SPECIAL PROTECTION INFORMATION Jse Bureau of Mines respirator approved for nuisance dusts. and the state of t VENTILATION Sufficient ventilation in volume and pattern to keep LEL and TLV's below icceptable OSHA limits. Synthetic rubber gloves recommended. Goggles or safety glasses with side shields recommended. Protective coveralls recommended. Remove and wash contaminated cloth Section IX — SPECIAL PRECAUTIONS RECAUTIONS TO BE TAKEN IN HANDLING AND STORING OL STORAGE CATEGORY THER PRECAUTIONS Do not ingest. Keep all equipment clean and 'properly grounded to avoid static electrici build up. Maintain good housekeeping and dust control.



# THE U DRIEN CURPURATION FULLER O'BRIEN PAINTS

NASON AUTOMOTIVE FINISHES — NAPKO PRODUCT

MIDWESTERN REGION 2001 WEST WASHINGTON AVENUE P.O. BOX 17 SOUTH BEND, IN 48624 EMERGENCY TELEPHONE (219) 233-9382

50 EAST GRAND AVENUE

P.O. BOX 14509 HOUSTON, TX 77021 EMERGENCY TELEPEHONE (713) 641-0663



# MATERIAL SAFETY DATA SHEET

RM R29 5		COATINGS, RESI			. DAT	E 6/11/8	35
		S	ection I		•		
PRODUCT CLASS	Powder Paint Dura White		- <b>M</b>		CODE IDENTIFICA	ATION	And the second s
	Section	on II — HAZA	ARDOUSI	NGREDIE	NTS		
NGREDIENT			PERCENT BY WEIGHT	T (	Mg/M²	LEL	VAPOR PRESSURE
Treat as nui	isance dust		100		10	40 gram meter o	s per cubic f air.
		Section III	– PHYSIC	AL DATA			· .
OILING RANGE VAPORATION RATE	ble	ER. THAN ETHER  — FIRE AN	PERCENT VO	0%	HEAVIER.  Not Applic WEIGHTP! GALLON	cable	en.THAN AIR
LAMMABILITY CLAS	ssification Not Applic	able	FLASH	POINT > 25	0 <sup>0</sup> F	ams per c	LEL Tubic

### CO<sub>2</sub>, foam, water fog. Powder will burn in contact with flame.

## UNUSUAL FIRE AND EXPLOSION HAZAROS

Dust cloud of 40 grams per cubic meter of air can be ignited by a spark of 20 milijoules Explosion proceeds at 200 atmospheres per second.

Use self-contained breathing apparatus to protect against SPECIAL FIRE FIGHTING PROCEDURES possibly hazardous combustion products.

## SECTION VII - SPILL OR LEAK PROCEDURES

SIERS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

R TO SECTIONS IV, V, VI.AND VII.ELIMINATE ALL IGNITION SOURCES, ABSORB LIQUID IN ABSORBANT MATERIAL AND PREVENT SPREADING TO GROUND WATER.

## WASTE DISPOSAL METHOD:

DESTROY BY LIQUID INCINERATION IN ACCORDANCE WITH APPLICABLE REGULATIONS. CONTAMINATED ABSORBANT MAY BE DEPOSITED IN A LANDFILL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

## SECTION VIII - SAFE HANDLING AND USE INFORMATION

### RESPIRATORY PROTECTION:

IF TLY OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF ENVIROMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER.) ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

### **VENTILATION:**

PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV (S).

## PROTECTIVE GLOVES:

R RESISTANT GLOVES SUCH AS: POLYVINYL ALCOHOL COATED OR POLYETHYLENE.

### EYE PROTECTION:

OSHA APPROVED CHEMICAL SPLASH GOGGLES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

### OTHER PROTECTIVE EQUIPMENT:

PREVENT REPEATED OR PROLONGED SKIN CONTACT WITH GB PROTECTIVE HANDCREAM, WEAR IMPERVIOUS CLOTHING AND CHEMICAL RESISTANT BOOTS.

## HYGIENIC PRACTICES:

"WASH HANDS BEFORE EATING OR USING REST ROOM, SMOKE IN SMOKING AREAS ONLY."

## SECTION IX - SPECIAL PRECAUTIONS

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUALS (VAPOR, LIQUID, AND/OR SOLID), ALL HAZARD PRECAUTIONS IN THIS DATA SHEET MUST BE OBSERVED.

## OTHER PRECAUTIONS:

PAINT AND SOLVENTS HAVE BEEN LINKED TO LIVER ABNOMALITIES, KIDNEY AND LUNG DAMAGE. ALTHOUGH THIS COATING IS A WATERBORNE OF LOW TOXICITY, FOLLOW PRECAUTIONS OF THIS MATERIAL SAFETY DATA SHEET TO PREVENT OVEREXPOSURE.

SECTION X - SUSPECTED CARCINOGEN							
SUSPECTED CANCER AGENT?  X NO: THIS PRODUCT'S INGREDIENTS ARE NOT FOUND IN THE LIST BELOW.							
YES: FEDERAL OSHANTPIARCCAL/OSHA (SEE BELOW)							
NOTE: CALIFORNIA EMPLOYERS USING CAL/OSHA-REGULATED CARCINOGENS MUST REGISTER WITH CAL/OSHA.							
SECTION XI - SHIPPING INFORMATION							
D.O.T. SHIPPING NAME  TECHNICAL SHIPPING NAME  D.O.T. HAZARD CLASSIFICATION  UN/NA NUMBER  D.O.T. LABELS REQUIRED  FLASH POINT  H.M.I.S. RATINGS: HEALTH 1 FLAMMABILITY 1 REACTIVITY 0							
SECTION XII - E. P. A. INFORMATION							
VOC CONTENT: (AS SUPPLIED) GRAMS/LITER LBS/GAL							
EXCLUDING EXEMPT SOLVENTS 200 1.67							
INCLUDING EXEMPT SOLVENTS 96 .80							
WATER PER VOLUME 50-55% 1,1,1-TRICHLOROETHANE PER VOLUME 0 %							
MIXING INSTRUCTIONS Reduce to spray with water if necessary.							
VOC CONTENT: (REDUCED PER ABOVE) GRAMS/LITER LBS/GAL							
EXCLUDING EXEMPT SOLVENTS 200 1.67							
INCLUDING EXEMPT SOLVENTS 96 .80							
WATER PER VOLUME 50-5% 1,1,1-TRICHLOROETHANE PER VOLUME 0 %							
COMMENTS							
THE INFORMATION CONTAINED HEREIN IS BASED UPON TECHNICAL DATA CONSIDERED TO BE TRUE AND ACCURATE. HOWEVER, CARDINAL INDUSTRIAL FINISHES MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, AS TO THE ACCURACY OR ADEQUACY OF THIS INFORMATION. THIS DATA IS OFFERED SOLEY FOR THE USER'S CONSIDERATION, INVESTIGATION AND VERIFICATION.  FORM PREPARED BY Richard A. Stewart							

REGULATORY TECHNICIAN



STOCK NUMBER: DATE:

2404 4/2/90

IDENTIFICATION

MATERIAL SAFETY DATA SHEET 1,1,1 TRICHLOROETHANE

PRODUCT:

CHEMICAL FAMILY:

FORMULA:

1.1.1 TRICHLOROETHANE/RECONSTITUTED GRADE

CHLORINATED HYDROCARBON SOLVENT

1,1,1 TRICHLOROETHANE RQ-(1000/454)

CHICCLI

U.S. DOT SHIPPING NAME:

U.S. DOT HAZARD CLASS:

ORM-A

U.S. DOT I.D. NUMBER:

UN2831

HAZARDOUS WASTE IDENTIFICATION:

U.S. EPA WASTE NUMBER:

F001

CALIFORNIA:

211

SOUTH COAST AQMD:

VOLATILE ORGANIC COMPOUND: 72 GRAMS/LITER

## PHYSICAL DATA

BOILING POINT @ 760 MM HG:

VAPOR DENSITY (AIR = 1):

SPECIFIC GRAVITY (H20 = 1) 0 25/25 C:

PH OF SOLUTIONS:

FREEZING/MELTING POINT:

SOLUBILITY (WEIGHT % IN WATER):

BULK DENSITY @ 25 C:

VOLUME % VOLATILE:

VAPOR PRESSURE @ 25 C:

EVAPORATION RATE (ETHYL ETHER = 1):

HEAT OF SOLUTION:

APPEARANCE:

ODOR:

48-80 C

4.54

1.300-1.320

6.0-7.5

-45 C

NEGLIGIBLE

10.8-10.97 #/GAL

100

135 MM HG

0.35

N/A

CLEAR, COLORLESS

LIQUID

ETHER-LIKE

## MATERIAL SAFETY DATA SHEET 1,1,1 TRICHLOROETHANE

## 2404

	COMPOSITION DATA	
COMPONENT	CAS NUMBER	PERCENT
1,1,1 TRICHLOROETHANE	71-55-6	> 95
1,2, BUTYLENE OXIDE	106-88-7	< 1
DIETHYLENE ETHER (1,4 DIOXANE)	123-91-1	2
NITROMETHANE	75-52-5	< 2
*SAFE DRINKING WATER AND TOXICS   THIS BLEND MAY CONTAIN 1,2-  ETHER, LISTED AS "PROPOSITION STATE OF CALIFORNIA TO CAUSI	DICHLOROETHANE AND DIE ON 65" CHEMICALS KNOWN	THYLENE
THE DETECTION LIMITS FOR THE DEPEND UPON THE DETECTION IS ANALYTICALMETHOD UTILIZED,	NSTRUMENT'S SPECIFICIT	Y, SENSITIVITY,
	/EXPLOSION HAZARD DATA	
FLASH POINT (METHOD USED): FLAMMABLE LIMITS IN AIR (% BY VO	NONE	•
LEL LINE IN AIR (% B) VOI	7%	
UEL	15%	
EXTINGUISHING MEDIA:		
WATER, DRY CHEMICALS OR CAR	BON DIOXIDE	
SPECIAL FIRE FIGHTING PROCEDURES		
FIRE FIGHTERS SHOULD WAR NI		
SELF-CONTAINED BREATHING API		
HYDROGEN CHLORIDE AND POSSII UNUSUAL FIRE AND EXPLOSION HAZARI		•
VAPORS CONCENTRATED IN A CO		ATED AREA CAN
BE IGNITED UPON CONTACT WITH		
INTENSITY SOURCE OF HEAT. TH		
BETWEEN 7-157 BY UNLUME DE	ECOMPOSITION OR BURNIN	G WILL PRODUCE
	BLE TRACES OF PHOSGENE	•
HYDROGEN CHLORIDE AND POSSI		

LC50 INHALATION: LD50 DERMAL: SKIN/EYE IRRITATION: LD50 INGESTION: FISH, LC50

(LETHAL CONCENTRATION)

RAT: 14,250 PPM/7 HOURS

RABBIT: > 15 G/KG

SEE EFFECTS OF OVEREXPOSURE

RAT: 10-12 G/KG

UNKNOWN

CLASSIFICATION (POISON, IRRITANT, ETC.)

INHALATION:

SLIGHTLY TOXIC

SKIN:

NOT SIGNIFICANTLY TOXIC

SKIN/EYE:

IRRITATING

INGESTION: AQUATIC:

NOT SIGNIFICANTLY TOXIC

UNKNOWN

EFFECTS OF OVEREXPOSURE

THIS SECTION COVERS EFFECTS OF OVEREXPOSURE FOR INHALATION, EYE/SKIN CONTACT, INGESTION AND OTHER TYPES OF OVEREXPOSURE INFORMATION IN THE ORDER OF THE MOST HAZARDOUS AND THE MOST LIKELY ROUTE OF OVEREXPOSURE.

IS CHEMICAL LISTED AS A CARCINOGEN OR POTENTIAL CARCINOGEN?

NTP:

NO

IARC:

NO

OSHA:

NO

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE KNOWN

PERMISSABLE EXPOSURE LIMITS:

OSHA:

350 PPM, 8-HOUR TWA (TIME-WEIGHTED AVERAGE)

450 PPM, 15-MINUTE STEL (SHORT-TERM EXPOSURE LIMIT)

29 CFR 1910.1000, REV. 3/1/89

ACUTE:

INHALATION: PRIMARILY A CENTRAL NERVOUS SYSTEM DEPRESSANT. INHALATION CAN CAUSE IRRITATION OF THE RESPIRATORY SYSTEM, DIZZINESS, NAUSEA, LIGHTHEADEDNESS, HEADACHE, LOSS OF COORDINATION AND EQUILIBRIUM, UNCONSCIOUSNESS, POSSIBLE CENTRAL NERVOUS SYSTEM DAMAGE AND EVEN DEATH IN CONFINED OR POORLY VENTILATED AREAS. FATALITIES FOLLOWING SEVERE ACUTE EXPOSURE TO VARIOUS CHLORINATED SOLVENTS HAVE BEEN ATTRIBUTED TO VENTRIBULAR FIBRILLATION.

EYE/SKIN: LIQUID SPLASHED IN THE EYE CAN RESULT IN DISCOMFORT, PAIN AND IRRITATION. PROLONGED OR REPEATED CONTACT WITH LIQUID ON THE SKIN CAN CAUSE IRRIATION AND DERMATITIS. THE PROBLEM MAY BE ACCENTUATED BY LIQUID BECOMING TRAPPED AGAINST THE SKIN BY CONTAMINATED CLOTHING AND SHOES, AND SKIN ABSORPTION CAN OCCUR.

INGESTION: SWALLOWING OF THIS MATERIALMAY RESULT IN IRRITATION OF THE MOUTH AND GI TRACT WITH OTHER EFFECTS AS LISTED ABOVE FOR INHALATION. VOMITING AND SUBSEQUENT ASPIRATION INTO THE LUNGS MAY LEAD TO CHEMICAL PNEUMONIA AND PULMONARY EDEMA WHICH IS A POTENTIALLY FATAL CONDITION. LD50 INGESTION: (RABBIT, GUINEA PIG) 5.6-9.5 G/KG.

### CHRONIC:

EXTENSIVELY STUDIED FOR CANCER POTENTIAL. THERE IS NO DOCUMENTED EVIDENCE TO SUGGEST THAT THIS PRODUCT CAUSES AN INCREASED CANCER INCIDENCE IN HUMANS OR ANIMALS. THE EPA'S SCIENCE ADVISORY BOARD CONCLUDED THAT THERE IS NO EVIDENCE TO SUGGEST CARCINOGENIC ACTIVITY.

#### REPRODUCTIVE:

IN DEVELOPMENTAL TOXICITY STUDIES, THERE WAS NO EVIDENCE FOR BIRTH DEFECTS IN RATS OR RABBITS AFTER INHALATION EXPOSURE TO PREGNANT ANIMALS. NO ADVERSE FINDINGS RELATIVE TO REPRODUCTIVE OR DEVELOPMENTAL TOXICITY WERE OBSERVED FOLLOWING DAILY SIX-HOUR EXPOSURES AT OR BELOW 3000 PPM IN RATS OR RABBITS.

		PROCEDURES	

### INHALATION:

REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

## EYE OR SKIN CONTACT:

FLUSH EYES AND SKIN WITH PLENTY OF WATER (SOAP AND WATER FOR SKIN) FOR AT LEAST 15 MINUTES, WHILE REMOVING CONTAMINATED CLOTHING AND SHOES. IF IRRITATION OCCURS, CONSULT A PHYSICIAN. THOROUGHLY CLEAN CONTAMINATED CLOTHING AND SHOES BEFORE REUSE, OR DISCARD.

### INGESTION:

IF CONSCIOUS, DRINK LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING. TAKE IMMEDIATELY, TO A HOSPITAL OR PHYSICIAN. IF UNCONSCIOUS, OR IN CONVULSIONS, TAKE IMMEDIATELY TO A HOSPITAL. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTES TO PHYSICIAN (INCLUDINGANTIDOTES):

NEVER ADMINISTER ADRENALINE FOLLOWING OVEREXPOSURE. INCREASED SENSITIVITY OF THE HEART TO ADRENALINE MAY BE CAUSED BY OVEREXPOSURE.

REACTIVITY DATA

STABILITY:

CONDITIONS TO AVOID:

STABLE

OPEN FLAMES, HOT GLOWING SURFACES,

OR ELECTRIC ARCS WILL NOT OCCUR

HAZARDOUS POLYMERIZATION: CONDITIONS TO AVOID:

NONE

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID MIXING WITH CAUSTIC SODA, CAUSTIC POTASH, OR OXIDIZING

MATERIALS.

SHOCK SENSITIVE COMPOUNDS MAY BE

FORMED.

HAZARDOUS DECOMPOSITION PRODUCTS:

HYDROGEN CHLORIDE AND POSSIBLE

TRACES OF PHOSGENE

### SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED:
IMMEDIATELY EVACUATE THE AREA AND PROVIDE MAXIMUM VENTILATION.
UNPROTECTED PERSONNEL SHOULD MOVE UPWIND OF SPILL. ONLY
PERSONNEL EQUIPPED WITH PROPER RESPIRATORY AND SKIN/EYE PROTECTION
SHOULD BE PERMITTED IN THE AREA. DIKE AREA TO CONTAIN SPILL. TAKE
PRECAUTIONS AS NECESSARY TO PREVENT CONTAMINATION OF GROUND AND
SURFACE WATERS. RECOVER SPILLED MATERIAL ON ADSORBENTS, SUCH AS
SAWDUST AND VERMICULATE, AND SWEEP INTO CLOSED CONTAINERS FOR DISPOSAL.
AFTER ALL VISIBLE TRACES, INCLUDING IGNITABLE VAPORS, HAVE BEEN
REMOVED, THOROUGHLY WET VACUUM THE AREA. DO NOT FLUSH TO SEWER.
IF AREA OF SPILL IS POROUS, REMOVE AS MUCH CONTAMINATED EARTH AND
GRAVEL, ETC. AS NECESSARY AND PLACE IN CLOSED CONTAINERS FOR
DISPOSAL.

## WASTE DISPOSAL METHOD:

CONTAMINATED SAWDUST, VERMICULITE, OR POROUS SURFACES MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. RECOVERED LIQUIDS MAY BE REPROCESSED OR INCINERATED OR MUST BE TREATED IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. CARE MUST BE TAKEN WHEN USING OR DISPOSING OF CHEMICAL MATERIALS AND/OR THEIR CONTAINERS TO PREVENT ENVIRONMENTAL CONTAMINATION. IT IS YOUR DUTY TO DISPOSE OF THE CHEMICAL MATERIALS AND/OR THEIR CONTAIERS IN ACCORDANCE WITH THE CLEAN AIR ACT, THE CLEAN WATER ACT, THE RESOURCE CONSERVATION AND RECOVERY ACT, AS WELL AS ANY OTHER RELEVANT FEDERAL, STATE OR LOCAL LAWS/REGULATIONS REGARDING DISPOSAL.

## SPECIAL PROTECTION INFORMATION

#### RESPIRATORY PROTECTION:

USE A HALF OR FULL FACEPIECE ORGANIC VAPOR CHEMICAL CARTRIDGE OR CANISTER RESPIRATOR WHEN CONCENTRATIONS EXCEED PERMISSIBLE LIMITS. USE SELF-CONTAINED BREATHING APPARATUS (SCBA) OR FULL FACEPIECE AIRLINE RESPIRATOR WITH AUXILIARY SCBA OPERATED IN THE PRESSURE-DEMAND MODE FOR EMERGENCIES AND FOR ALL WORK PERFORMED IN STORAGE VESSELS, POORLY VENTILATED ROOMS, AND OTHER CONFINED AREAS. RESPIRATORS MUST BE APPROVED BY NIOSH OR MSHA. THE RESPIRATOR USE LIMITTIONS MADE BY NIOSH/MSHA AND BY THE MANUFACTURER MUST BE OBSERVED. RESPIRATORY PROTECTION PROGRAMS MUST BE IN ACCORDANCE WITH 29 CFR 1910.134.

### VENTILATION (TYPE):

USE LOCAL EXPOSURES TO BELOW PERMISSIBLE LIMITS.

#### EYE PROTECTION:

SPLASHPROOF GOGGLES

### GLOVES:

VITRON(R), SILVERSHIELD (R), FOR LIMITED SERVICE ONLY: POLYVINYL ALCOHOL (DEGRADES IN WATER)

### OTHER PROTECTIVE EQUIPMENT:

BOOTS, APRONS OR CHEMICAL SUITS SHOULD BE USED WHEN NECESSARY TO PREVENT SKIN CONTACT. PERSONAL PROTECTIVE CLOTHING AND USE OF EQUIPMENT MUST BE IN ACCORDANCE WITH 29 CFR 1910.132 AND 29 CFR 1910.133.

### SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN DURING HANDLING AND STORING:

- \* DO NOT USE IN POORLY VENTILATED OR CONFINED AREAS WITHOUT PROPER RESPIRATORY PROTECTION (SEE SPECIAL PROTECTION INFORMATION)
- \* VAPORS ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS
- \* KEEP CONTAINER CLOSED WHEN NOT IN USE
- \* STORE ONLY IN CLOSED, PROPERLY LABELED CONTAINERS
- \* LIQUID OXYGEN OR OTHER STRONG OXIDANTS MAY FORM EXPLOSIVE MIXTURES
- \* THIS MATERIAL OR ITS VAPORS WHEN IN CONTACT WITH FLAMES, HOT GLOWING SURFACES, OR ELECTRIC ARCS CAN DECOMPOSE TO FORM HYDROGEN CHLORIDE AND POSSIBLE TRACES OF PHOSGENE
- \* AVOID CONTAMINATION OF WATER SUPPLIES. HANDLING, STORAGE AND USE PROCEDURES MUST BE CAREFULLY MONITORED TO AVOID SPILLS OR LEAKS. ANY SPILL OR LEAK HAS THE POTENTIAL TO CAUSE UNDERGROUND WATER CONTAMINATION WHICH MAY, IF SUFFICIENTLY SEVERE, RENDER A DRINKING WATER SOURCE UNFIT FOR HUMAN CONSUMPTION. CONTAMINATION THAT DOES OCCUR CANNOT BE EASILY CORRECTED.
- \* DO NOT STORE OR STACK ALUMINUM IN CONTACT WITH THIS PRODUCT TO PREVENT POSSIBLE SOLVENT DECOMPOSITION (STACKING CORROSION)

\* CAUTION SHOULD BE TAKEN NOT TO USE IN PRESSURIZED OR TOTALLY ENCLOSED SYSTEM OF ALUMINUM CONSTRUCTION (EXAMPLE: PAINT OR ADHESIVE SPRAY SYSTEM).

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- \* A CHLORINATED SOLVENT USED AS A FLASHPOINT SUPPRESANT MUST BE ADDED IN SUFFICIENT QUANTITY OR THE RESULTANT MIXTURE MAY HAVE A FLASHPOINT LOWER THAN THE FLAMMABLE COMPONENT.
- \* DO NOT USE CUTTING OR WELDING TORCHES ON EMPTY DRUMS THAT CONTAINED THIS PRODUCT UNLESS PROPERLY PURGED AND CLEANED.

#### OTHER PRECAUTIONS:

- \* DO NOT BREATHE VAPORS. HIGH VAPOR CONCENTRATIONS CAN CAUSE DIZZINESS, UNCONSCIOUSNESS OR DEATH. LONG-TERM OVEREXPOSURE MAY CAUSE POSSIBLE CENTRAL NERVOUS SYSTEM DAMAGE.
- \* USE ONLY WITH ADEQUATE VENTILATION. VENTILATION MUST BE SUFFICIENT TO LIMIT EMPLOYEE EXPOSURE TO BELOW PERMISSIBLE EXPOSURE LIMITS. OBSERVANCE OF LOWER LIMITS (OUTLINED IN "EFFECTS OF OVEREXPOSURE") IS ADVISABLE. EYE IRRITATION, DIZZINESS AND/OR DRUNKENNESS ARE SIGNS OF OVEREXPOSURE.
- \* AVOID CONTACT WITH EYES. WILL CAUSE IRRITATION AND PAIN.
- \* AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. MAY CAUSE IRRITATION OR DERMATITIS.
- \* DO NOT SWALLOW. SWALLOWING MAY CAUSE INJURY OR DEATH.
- \* DONOT EAT, DRINK OR SMOKE IN WORK AREA.

#### COMMENTS:

TSCA:

1,1,1-TRICHLOROETHANE IS ON THE TSCA INVENTORY UNDER CAS #71-55-6. PRODUCT FORMULATIONS CONTAIN STABILIZERS LISTED ON THE TSCA INVENTORY.

SARA TITLE III - A) 311/312 CATEGORIES - ACUTE

B) LISTED IN SECTION 313 AS 1,1,1-TRICHLOROETHANE (METHYLCHLOROFORM), ALSO CONTAINS TERTIARY BUTYL ALCOHOL WHICH IS LISTED IN SECTION 313
C) NOT LISTED AS AN "EXTREMELY HAZARDOUS SUBSTANCE"

IN SECTION 302.

CERCLA: LISTED IN TABLE 302.4 OF 40 CFR PART 302 AS A HAZARDOUS SUBSTANCE WITH A REPORTABLE QUANTITY OF 1000 POUNDS. RELEASES TO AIR, LAND, OR WATER WHICH EXCEED THE RQ MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER, 800-424-8802.

RCRA: WASTE 1,1,1-TRICHLOROETHANE AND CONTAMINATED SOILS/
MATERIALS FROM SPILL CLEANUP ARE U226 HAZARDOUS WASTE
AS PER 40 CFR 261.33 AND MUST BE DIPOSED OF ACCORDINGLY
UNDER RCRA. SEE FOR CFR 261.33(C) AND 261.7(B)(3) FOR
CLEANING REQUIREMENTS FOR EMPTY CONTAINERS.

CALIFORNIA PROP. 65: THIS PRODUCT CONTAINS ETHYLENE DICHLORIDE, A
PROCESS IMPURITY OF LESS THAN 0.1%. PROP. 65 LISTS THIS COMPOL
AS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.



## MATERIAL SAFETY DATA SHEET

RHO-CHEM CORP. 425 ISIS AVE. INGLEWOOD, CA 90301 (213)776-6233

METHYL ETHYL KETONE EFFECTIVE 8-12-86 PAGE 1

## METHYL ETHYL KETONE

IDENTIFICATION

PRODUCT: METHYL ETHYL KETONE

CHEMICAL FAMILY: KETONE

SYNONYM: 2-BUTANONE

STOCK NUMBERS:

TECHNICAL GRADE:

1804

RECONSTITUTED GRADE: 1854

ELECTRONIC/SEMI GRADE: 1964

A.C.S. REAGENT GRADE: 3964

## DEPARTMENT OF TRANSPORTATION (DOT) IDENTIFICATION:

PORTABLE QUANTITY (RQ): 5000 POUNDS (2270 KILOGRAMS) PER 49 CFR 172.101 LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES OF 07/01/87.

DOT PROPER SHIPPING NAME: METHYL ETHYL KETONE DOT HAZAFD CLASS: FLAMMABLE LIQUID DOT IDENTIFICATION NUMBER: UN1193

HAZARDOUS WASTE IDENTIFICATION: U.S. EPA WASTE NUMBER: FOOS

CALIFORNIA: 212

SOUTH JAST AIR QUALITY MANAGEMENT DISTRICT:

VOLATILE URGANIC COMPOUND (VDC) = 805 grams/Liter

SECTION 2

PRODUCT/COMPOSITION DATA

COMPONENT #

COMPONENT

CAS NUMBER

PERCENT

78-93-3

100

INFORMATION:

ACT OF 1986

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## METHYL ETHYL KETONE PAGE 2

SECTI: 3

PHYSICAL DATA

BOILING POINT OR RANGE (DEG. F)

SPECIFIC GRAVITY (25/2**5**C)

SOLUBILITY IN WATER @25C (WT %)

175

0.81

27.1

VAPOR PRESSURE (mm Hg)

IN AIR (AIR=1) BY UNITED VAPOR DENSITY

EVAPORATION RATE N-BUTYL ACETATE = 1

70 @ 68F

2.5

100

3.8

APPEARANCE: CLEAR COLORLESS LIQUID

ODOR:

PUNGENT

ECTION 4A

HEALTH INFORMATION-HEALTH RATING

HAZARDOUS MATERIALS IDENTIFICATION SYSTEMS (HMIS)

HEALTH (3)

FARE (3

REACTIVITY (0)

PERSONAL PROTECTION (C) SAFETY GLASSES

GLOVES / APRON

SECTION 4B HEALTH INFORMATION-ACUTE TOXICITY DATA

COMPONENT # ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50

RAT 3.4 G/KG

RABBIT 8 ML/KG

RAT BOOO PPM/BHR

SECTION 4C HEALTH INFORMATION-OCCUPATIONAL EXPOS. RE LIMITS

COMPONENT

(DSHA) PEL CEILING TLV/TWA PEL/TWA

(ACGIH)

T! リノデ \_ J' .

200 PPM

200 PPM

كود

2.4

## METHYL ETHYL KETONE PAGE 3

SECTION 4D HEALTH INFORMATION - EFFECTS OF EXPOSURE

EFFECTS DESCRIBED IN THIS SECTION ARE BELIEVED NOT TO OCCUR IF EXPOSURES TO THE PRODUCT ARE MAINTAINED AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C. PREEXISTING SKIN, EYE, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

POTENTIAL ROUTE OF ENTRY INHALATION \_X\_

SKIN \_\_\_\_

INGESTION \_\_\_

### INHALATION:

VAPORS MAY BE IRRITATING TO NOSE, THROAT AND RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

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LIQUID IS IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN TO BECOME REDDENED, ROUGH, AND DRY DUE TO THE REMOVAL OF NATURAL DILS, AND MAY RESULT IN DERMATITIS.

EYES: LIQUID IS MODERATELY IRRITATING TO THE EYES.

HIGH VAPOR CONCENTRATION MAY ALSO CAUSE IRRITATION.

INGESTION: LIQUID IS TOXIC AND MAY BE HARMFUL IF SWALLOWED. MAY PRODUCE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE: INTENTIONAL ABUSE, MISUSE, OR OTHER MASSIVE EXPOSURE MAY RESULT IN DIFFICULT BREATHING, NAUSEA, VOMITING AND HEADACHE. COMA AND OR DEATH ARE POSSIBLE.

CENTRAL NERVOUS SYSTEM DEFRESSION RANGES FROM LIGHT HEADEDNESS TO UNCONSCIOUSNESS AND DEATH. CNS DEPRESSION IS EVIDENCED BY GIDDINESS, DIZZINESS AND NAUSEA.

SECTION 4E SUPPLEMENTAL HEALTH INFORMATION

IS THE PRODUCT OR A COMPONENT OF THE PRODUCT LISTED AS A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY TOR RESEARCH ON CANCER (IARC), OCCUPATIONAL SAFETY AND HEALTH MINISTRATION (OSHA) OR IS IT THE SUBJECT OF A HAZARD EVALUATION SYSTEM AND INFORMATION SERVICE (HESIS) HAZARD ALERT?

COMPONENT NUMBER NTP

AHED

TARC CARCINOGEN CARCINOGEN CARCINOGEN

HESIS HAZARD ALERT

1

NO

NO

NO

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## METHYL ETHYL KETONE PAGE 4

## COMPONENT INFORMATION

## METHYL ETHYL KETONE:

IN FEMALE RATS EXPOSED BY INHALATION TO OVER 1000 PPM (5X'S THE DEMA-PEL/TWA) MINOR EMBRYOTOXIC/FETOTOXIC EFFECTS WERE OBSERVED.

METHYL ETHYL KETONE HAS BEEN DEMONSTRATED TO POTENTIATE (I.F. SHORTEN THE TIME OF ONSET) THE PERIPHERAL NEUROPATHY CAUSED BY EITH N-HE NE OR METHYL N-BUTYL KETONE. MEK BY ITSELF HAS NOT BEEN DEMONS RAVED TO CAUSE PERIPHERAL NEUROPATHY.

### SECTION 5

## EMPLOYEE PROTECTION

## VENTILÄTION:

MAINTAIN WORKPLACE VAPOR CONCENTRATIONS AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C.

## DIECTIVE MEASURES FOR MAINTENANCE:

EXERCISE REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. IN A COOL PLACE. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE. DO NOT PRESSURE PRODUCT OUT OF VESSEL OR TRANSPORT CONTAINER WITH AIR.

## RESPIRATORY PROTECTION:

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION 4C) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

## SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS GLOVES, BOOTS, AFRON OR FULL-BODY SUIT WILL DEPEND ON OPERATION.

## EYE PROTECTION:

USE SAFETY GLASSES. WHERE CONTACT WITH LIQUID IS LIKELY, CHEMICAL GOGGLES ARE RECOMMENDED BECAUSE EYE CONTACT WITH THIS MATERIAL MAY USE PAIN, EVEN THOUGH IT IS UNLIKELY TO CAUSE INJURY. CONTACT LENSES SHOULD NOT BE WORN.

## HYGIENE:

AVOID CONTACT WITH SKIN AND AVOID BREATHING VAPORS. DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING, DRINKING, OR USING RESTROOM.

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## METHYL ETHYL KETONE PAGE 5

SECTION 6

EMERGENCY AND FIRST AID

#### EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

### SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING/SHOES AND WIFE EXCESS FROM SKIN. SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.

## INHALATION:

REMOVE VICTIM TO FRESH AIR AND PROVIDE DXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

### INGESTION!

INDUCE VOMITING, DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. GTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC. IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITNG. GET MEDICAL ATTENTION. SEE NOTE TO PHYSICIAN, BELOW.

## NOTE TO PHYSICIAN:

IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TURE ..

SECTION 7

FIRE AND EXPLOSION HAZARDS

FLASH ROINT: > 23 F. (TCC) A

FLAMMABLE LIMITS: VOLUME IN AIR UPPER LIMITS: 11.5% LOWER LIMITS: 1.8%

EXTINGUISHING MEDIA:

USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS: WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL. NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS) INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

## METHYL ETHYL KETONE PAGE 6

UNUSUAL FIRE AND EXPLOSION HAZARDS: CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO VENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTUR: LONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY FILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

CTION B

REACTIVITY

STABILITY: THIS PRODUCT IS STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMPUSTION.

SECTION 9

SPILL AND DISPOSAL PRACTICES

## SPILL.

EVACUATE THE AREA, VENTILATE, AND AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA (WEAR FROTECTIVE EQUIPMENT) BY MOPPING OF WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND AND SURFACE WATERS. DO NOT FLUSH TO SEWER.

## WASTE DISPOSAL:

RECOVERED LIQUIDS MAY BE SENT TO A LICENSED RECLAIMER OR INCINERATION ILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED ARDOUS WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE OR LOCAL DISPUSAL AUTHORITIES FOR APPROVED PROCEDURES.

## METHYL ETHYL KETONE PAGE 7

SECTION 10

SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHT, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE: FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED. CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS.

STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

HALLING AND STORAGE:

HANDLE WITH REASONABL CARE AND CAUTION. AVOID BREATHING VAPORS. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS BUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE.

STORE DRUMS IN A COOL PLACE, BUNG UP AND TIGHTLY CLOSED. STORAGE TANKS SHOULD BE ADEQUATELY VENTED FOR FILLING AND PRESSURE EQUALIZATION. VENTS FROM INDOOR TANKS SHOULD TERMINATE OUTDOORS.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED IS MADE. SINCE THE ACTUAL USE OF THIS PRODUCT BY OTHERS IS BEYOND THE CONTROL OF RHJ-CHEM CORPORATION, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THIS PRODUCT.

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4-18-91

## MATERIAL SAFETY DATA SHEET

-CHEM CORP. 425 ISIS AVE. INGLEWOOD, CA 90301 (213)776-6233

RHO SOLV EB EFFECTIVE 8-12-86

RHO SOLV EB ETHYLENE GLYCOL MONOBUTYL ETHER

IDENTIFICATION

PRODUCT: RHO SOLV EB

CHEMICAL FAMILY: GLYCOL ETHER

SYNONYM: 2-BUTOXYETHANOL

STOCK NUMBERS:

TECHNICAL GRADE: 1601

RECONSTITUTED GRADE:

ELECTRONIC/SEMI GRADE: N/A

A.C.S. REAGENT GRADE: 3968

DEPARTMENT OF TRANSFORTATION (DOT) IDENTIFICATION

DOT PROPER SHIPPING NAME: COMBUSTIBLE LIQUID, NOS DOT HAZARD CLASS: FLAMMABLE LIQUID

DOT IDENTIFICATION NUMBER: UN-2369

HAZARDOUS WASTE IDENTIFICATION

WASTE NUMBER: US EFA DOO1

CALIFORNIA: 212

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT: THIS CHEMICAL IS NOT PHOTOCHEMICALLY REACTIVE

SECTION 2 PRODUCT/COMPOSITION DATA

COMPONENT #

COMPONENT

CAS NUMBER

PERCENT

ETHYLENE GLYCOL MONOBUTYL ETHER

111-76-2

100

PHYSICAL DATA

BOILING POINT OR RANGE (DEG. F)

SPECIFIC GRAVITY (25/25C)

SOLUBILITY IN PROPERTY OF THE LOCAL WATER @25C (WT %)

340

0.90

COMPLETE

# RHO SOLV EB PAGE 2

VAPOR PRESSURE (mm Hg)	VAPOR DENSITY IN AIR (AIR=1)	% VOLATILE BY VOLUME	EVAPORATION RATE n-BUTYL ACETATE = 1		
0.6 @ 68F	4.1	100	0.18		
APPEARANCE: ODOR:	CLEAR COLORLESS L1	[QUID			
	HEALTH ]	NFORMATION-HEAL	TH RATING		
	ATERIALS IDENTIFICAT	TION SYSTEMS (HM	IS)		
HEALTH (3)		FIRE (2)			
REACTIVITY	(0)	PERSONAL	. PROTECTION (C) SAFETY GU GLOVES /		
	HEALTH INFO				
COMPONENT #	ACUTE ORAL LD50	ACUTE DERMAL	LD50 ACUTE INHALATION (	LC5	
1	RAT 0.5-3.0 G/KG	RABBIT 0.4 G/	G RAT 450 PPM/4HR		
SECTION 4C	HEALTH INFOR	MATION-OCCUPATIO	NAL EXPOSURE LIMITS		
COMPONENT	(OSHA) PEL/TWA PEL	CEILING TLV	(ACGIH) TUV/STEL		
i .	25 PPM	25 F	PPM 75 PPM		
SECTION 4D	HEALTH INF	ORMATION - EFFE	CTS OF EXPOSURE		
THE PRODUCT	EFFECTS DESCRIBED IN THIS SECTION ARE BELIEVED NOT TO OCCUR IF EXPOSURES TO THE PRODUCT ARE MAINTAINED AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C. PREEXISTING SKIN, EYE, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE.				
	OUTE OF ENTRY: LATION _X_	SKIN	INGESTION	.•	

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## INHALATION:

VAPORS MAY BE IRRITATING TO NOSE, THROAT AND RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

PRODUCT IS ACUTELY TOXIC IF INHALED.

#### SKIN:

LIQUID IS IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN TO BECOME REDDENED, ROUGH, AND DRY DUE TO THE REMOVAL OF NATURAL OILS, AND MAY RESULT IN DERMATITIS.

PRODUCT IS TOXIC IF ABSORBED THROUGH THE SKIN.

### EYES:

LIQUID IS SEVERELY IRRITATING TO THE EYES.

LIQUID CAUSES TEMPORARY FAINFUL BURNING SENSATION, TEARING, GENERAL INFLAMMATION, AND BLURRED VISION.

### INGESTION:

IQUID IS TOXIC AND MAY BE HARMFUL IF SWALLOWED.

SWALLOWING PRODUCT MAY RESULT IN GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING, DIARRHEA.

SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE:

INTENTIONAL ABUSE, MISUSE OR OTHER MASSIVE EXPOSURE MAY RESULT IN DIFFICULT BREATHING, NAUSEA, VOMITING AND HEADACHE. COMA AND DEATH ARE POSSIBLE.

## SECTION 4E

SUPPLEMENTAL HEALTH INFORMATION

IS THE PRODUCT OR A COMPONENT OF THE PRODUCT LISTED AS A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) OR IS IT THE SUBJECT OF A HAZARD EVALUATION SYSTEM AND INFORMATION SERVICE (HESIS) HAZARD ALERT?

COMPONENT	NTP	OSHA	IARC	HESIS	
NUMBER	CARCINOGEN	CARCINOGEN	CARCINOGEN	HAZARD ALERT	
1	NO	NO		NO	

### COMPONENT INFORMATION

### ETHYLENE GLYCOL MONOBUTYL ETHER (2-BE)

EXPOSURE OF RATS BY INHALATION TO 2-BE CAUSED HEMOLYSIS, HEMOGLOBINURIA (BLOOD IN THE URINE) AND A SLIGHT INCREASE IN LIVER WEIGHT. OTHER SPECIES, INCLUDING MAN, WERE LESS SENSITIVE OR MORE RESISTANT TO HEMOLYSIS. THE HEMOLYTIC EFFECT IN RATS WAS TRANSITORY AND/OR REVERSIBLE AND NOT CONSIDERED TO BE RELEVANT TO HUMAN HEALTH. INAHLATION EXPOSURE OF PREGNANT RABBITS CAUSED SOME LETHALITY AND DAMAGE TO THE FETUS AT 200 PPM. BUT THERE WERE NO EFFECTS AT 100 PPM AND BELOW. INHALATION EXPOSURE TO PREGNANT RATS CAUSED IRRITANCY TO THE DAMS AND RELATED FEOTOXICITY AT 200 AND 100 PPM, BUT THERE WERE NO EFFECTS AT 50 PPM AND BELOW. 2-BE DID NOT CAUSE BIRTH DEFECTS IN EITHER STUDY.

SECTION 5

EMPLOYEE PROTECTION

### **VENTILATION:**

MAINTAIN WORKPLACE VAPOR CONCENTRATIONS AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C.

### PROTECTIVE MEASURES FOR MAINTENANCE:

EXERCISE REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. STORE IN A COOL PLACE. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE. DO NOT PRESSURE PRODUCT OUT OF VESSEL OR TRANSPORT CONTAINER WITH AIR.

### RESPIRATORY PROTECTION:

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION 4C) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

## SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS MATERIAL. BELECTION OF SPECIFIC ITEMS SUCH AS GLOVES, BOOTS, APRON OR FULL-BODY SUIT WILL DEPEND ON OPERATION.

## EYE PROTECTION:

USE SAFETY GLASSES. WHERE CONTACT WITH LIQUID IS LIKELY, CHEMICAL GOGGLES ARE RECOMMENDED BECAUSE EYE CONTACT WITH THIS MATERIAL MAY CAUSE PAIN, EVEN THOUGH IT IS UNLIKELY TO CAUSE INJURY. CONTACT LENSES SHOULD NOT BE WORN.

#### HYGIENE:

AVOID CONTACT WITH SKIN AND AVOID BREATHING VAPORS. 'DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING, DRINKING, OR USING RESTROOM.

SECTION 6

EMERGENCY AND FIRST AID

## EYE CONTACT:

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

## SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN. FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER. IF IRRITATION OCCURS. GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING UNTIL CLEANED.

#### INHALATION:

REMOVE VICTIM TO FRESH AIR AND PROVIDE DXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

### INGESTION:

INDUCE VOMITING:

DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC. IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION. SEE NOTE TO PHYSICIAN, BELOW.

NOTE TO PHYSICIAN:

IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IFECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TURE

SECTION 7

FIRE AND EXPLOSION HAZARDS

FLASH POINT: 138 F (TCC)

FLAMMABLE LIMITS: VOLUME IN AIR UPPER LIMITS: 12.7% @ 275F LOWER LIMITS: 1.1% @ 200F

EXTINGUISHING MEDIA:

USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

CAUTION. COMBUSTIBLE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD. BUNKER COATS. GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVELY.

SECTION 8

REACTIVITY

STABILITY: THIS PRODUCT IS STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

AVDID CONTACT WITH STRONG ALKALIES SUCH AS SODIUM HYDROXIDE AND CONTACT WITH STRONG MINERAL ACIDS SUCH AS SULFURIC, HYDROCHLORIC AND NITRIC ACIDS.

AVOID CONTACT WITH ALUMINUM SURFACES. IF THE ALUMINUM OXIDE SURFACE FILM IS REMOVED, RELEASE OF HYDROGEN GAS CAN RESULT.

HAZARDOUS DECOMPOSITION PRODUCTS:

CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

SECTION 9

SPILL AND DISPOSAL PRACTICES

### SPILL:

EVACUATE THE AREA, VENTILATE, AND AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA (WEAR PROTECTIVE EQUIPMENT) BY MOPPING OR WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND AND SURFACE WATERS. DO NOT FLUSH TO SEWER.

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أأنف أتغيم فيتحالك فالإراميل المكتف لإليك الصابيعين والمسافية والأراب المعاب الأراب الأرابي الإرابي

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### WASTE DISPOSAL:

RECOVERED LIQUIDS MAY BE SENT TO A LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED PROCEDURES.

SECTION 10

### SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHT, CIGARETTES AND TURN OF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE: FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED. CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR FERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS.

STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

## HANDLING AND STORAGE:

HANDLE WITH REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE.

STORE DRUMS IN A COOL PLACE, BUNG UP AND TIGHTLY CLOSED. STORAGE TANKS SHOULD BE ADEQUATELY VENTED FOR FILLING AND PRESSURE EQUALIZATION. VENTS FROM INDOOR TANKS SHOULD TERMINATE OUTDOORS.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED IS MADE. SINCE THE ACTUAL USE OF THIS PRODUCT BY OTHERS IS BEYOND THE CONTROL OF RHO-CHEM CORPORATION, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY FOR HIS OWN USE OF THIS PRODUCT.

#### MATERIAL SAFETY DATA SHEET

RHO-CHEM CORP. 425 ISIS AVE. INGLEWOOD, CA 90301 (213)776-6233

ACETONE EFFECTIVE 5/25/88 PAGE 1

#### ACETONE

SECTION 1 IDENTIFICATION

\_\_\_\_\_

PRODUCT: ACETONE

CHEMICAL FAMILY: KETONE SYNONYM: 2-PROPANONE

STOCK NUMBERS:

TECHNICAL GRADE:

1801

RECONSTITUTED GRADE: 1851

ELECTRONIC/SEMI GRADE: 1961

A.C.S. REAGENT GRADE: 3961

DEPARTMENT OF TRANSPORTATION (DOT) IDENTIFICATION:

REPORTABLE QUANTITY (RQ): 5000 POUNDS (2270 KILOGRAMS) PER

49 CFR 172.101 LIST OF HAZARDOUS SUBSTANCES AND REPORTABLE QUANTITIES

OF 07/01/87.

OT PROPER SHIPPING NAME: ACETONE DOT HAZARD CLASS: FLAMMABLE LIQUID DOT IDENTIFICATION NUMBER: UN1090

HAZARDOUS WASTE IDENTIFICATION:

U.S. EPA WASTE NUMBER: F003 or D001 CALIFORNIA: 212

SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT: THIS CHEMICAL IS NOT PHOTOCHEMICALLY REACTIVE VOLATILE ORGANIC COMPOUND (VOC) = 800 grams/Liter

SECTION 2 PRODUCT/COMPOSITION DATA

COMPONENT # COMPONENT

CAS NUMBER

PERCENT

ACETONE

67-64-1

100

\*SAFE DRINKING WATER AND TOXICS ENFORCEMENT ACT OF 1986 ("PROPOSITION 65") WARNING:

DETECTABLE AMOUNTS OF BENZENE ARE PRESENT IN COMPONENT #1. THIS CHEMICAL IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. THE CONCENTRATION LEVEL IS APPROXIMATELY 5.0 PARTS PER MILLION, AND MAY BE 30.0 PARTS PER MILLION AT MAXIMUM LEVELS. THE DETECTION LIMIT FOR THIS CHEMICAL IS VARIABLE,

ND DEPENDS UPON THE DETECTION INSTRUMENT'S SPECIFICITY, ENSITIVITY, THE ANALYTICAL METHOD UTILIZED, AND VARIOUS

OTHER PARAMETERS.

ACETONE

		PAGE 2		
SECTION 3		PHYSICAL DAT		
BOILING POINT OR RANGE (DEG. F)	F SPEC GRAV		SOLUBILITY IN WATER @25C (WT %)	
133	0.	80	COMPLETE	
			EVAPORATION RATE n-BUTYL ACETATE =	1
186 @ 60F	2.0	100	5.6	
APPEARANCE: OODOR: MILD OF	CLEAR COLORLESS L DOR	IQUID		
	HEALTH		EALTH RATING	
	rerials identific			
HEALTH (3)	FIR	E (4)		
REACTIVITY (	O) PER	SONAL PROTECTIO	ON (C) SAFETY GLASSES GLOVES / APRON	
SECTION 4B	HEALTH INF	ORMATION-ACUTE	TOXICITY DATA	
COMPONENT # A	ACUTE ORAL LD50	ACUTE DERMAL	LD50 ACUTE INHALATION	1 LC50
1	RAT 9.75 G/KG	RABBIT 20.0	G/KG RAT 16000 PPM/4	HR
SECTION 4C	HEALTH INFO	RMATION-OCCUPAT	TIONAL EXPOSURE LIMITS	
COMPONENT		PEL CEILING	(ACGIH) TLV/TWA TLV/STEL	
1	750 PPM 3	000 PPM	750 PPM 1000 PPM	

## ACETONE PAGE 3

SECTION 4D

HEALTH INFORMATION - EFFECTS OF EXPOSURE

EFFECTS DESCRIBED IN THIS SECTION ARE BELIEVED NOT TO OCCUR IF EXPOSURES TO THE PRODUCT ARE MAINTAINED AT OR BELOW THE OCCUPATIONAL EXPOSURE LIMITS LISTED IN SECTION 4C. PREEXISTING SKIN, EYE, AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE.

POTENTIAL ROUTE OF ENTRY INHALATION \_X\_

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INGESTION \_\_\_\_

#### INHALATION:

VAPORS MAY BE IRRITATING TO NOSE, THROAT, AND RESPIRATORY TRACT. HIGH VAPOR CONCENTRATIONS MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

#### SKIN:

IQUID IS IRRITATING TO THE SKIN. PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN TO BECOME REDDENED, ROUGH, AND DRY DUE TO THE REMOVAL OF NATURAL OILS, AND MAY RESULT IN DERMATITIS.

#### EYES:

LIQUID IS SEVERELY IRRITATING TO THE EYES. HIGH VAPOR CONCENTRATION MAY ALSO CAUSE IRRITATION.

#### INGESTION:

MAY PRODUCE CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION.

SIGNS AND SYMPTOMS OF EXCESSIVE EXPOSURE:

INTENTIONAL ABUSE, MISUSE, OR OTHER MASSIVE EXPOSURE MAY RESULT IN DIFFICULT BREATHING, NAUSEA, VOMITING AND HEADACHE. COMA AND OR DEATH ARE POSSIBLE.

CENTRAL NERVOUS SYSTEM DEPRESSION RANGES FROM LIGHT HEADEDNESS TO UNCONSCIOUSNESS AND DEATH. CNS DEPRESSION IS EVIDENCED BY GIDDINESS, DIZZINESS AND NAUSEA.

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## ACETONE PAGE 4

SECTION 4E

#### SUPPLEMENTAL HEALTH INFORMATION

IS THE PRODUCT OR A COMPONENT OF THE PRODUCT LISTED AS A CARCINOGEN BY THE NATIONAL TOXICOLOGY PROGRAM (NTP), INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC), OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA), OR IS IT THE SUBJECT OF A HAZARD EVALUATION SYSTEM AND INFORMATION SERVICE (HESIS) HAZARD ALERT?

SYSTEM AND	INFORMATION	SERVICE (HESIS)	HAZARD ALERT?		
COMPONENT NUMBER	NTP CARCINOGEN	OSHA CARCINOGEN	IARC CARCINOGEN	HESIS HAZARD ALERT	
1	NO	МО	NO	NO	
		COMPONENT I			
ACETONE: NO SUPPLEM	ENTAL HEALTH	INFORMATION HAS	BEEN INDENTIFIED	•	
SECTION 5		EMPLOYEE PRO	TECTION		
VENTILATION	N:				

MAINTAIN WORKPLACE VAPOR CONCENTRATIONS AT OR BELOW THE OCCUPATIONAL XPOSURE LIMITS LISTED IN SECTION 4C.

#### PROTECTIVE MEASURES FOR MAINTENANCE:

EXERCISE REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. STORE IN A COOL PLACE. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE. DO NOT PRESSURE PRODUCT OUT OF VESSEL OR TRANSPORT CONTAINER WITH AIR.

#### RESPIRATORY PROTECTION:

AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SECTION 4C) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910.134 USE EITHER A FULL-FACE, ATMOSPHERE-SUPPLYING RESPIRATOR OR AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

#### SKIN PROTECTION:

FOR BRIEF CONTACT, NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING CLOTHING SHOULD BE NEEDED. WHEN PROLONGED OR FREQUENTLY REPEATED CONTACT COULD OCCUR, USE PROTECTIVE CLOTHING IMPERVIOUS TO THIS ATERIAL. SELECTION OF SPECIFIC ITEMS SUCH AS GLOVES, BOOTS, APRON OR FULL-BODY SUIT WILL DEPEND ON OPERATION.

## ACETONE PAGE 5

#### EYE PROTECTION:

WHERE CONTACT WITH LIQUID IS LIKELY, CHEMICAL GOGGLES ARE RECOMMENDED BECAUSE EYE CONTACT WITH THIS MATERIAL MAY CAUSE PAIN, EVEN THOUGH IT IS UNLIKELY TO CAUSE INJURY. CONTACT LENSES SHOULD NOT BE WORN.

#### HYGIENE:

AVOID CONTACT WITH SKIN AND AVOID BREATHING VAPORS. DO NOT EAT, DRINK OR SMOKE IN WORK AREA. WASH HANDS PRIOR TO EATING, DRINKING, OR USING RESTROOM.

SECTION 6

EMERGENCY AND FIRST AID

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EYE CONTACT:

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IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

#### SKIN CONTACT:

REMOVE CONTAMINATED CLOTHING/SHOES AND WIPE EXCESS FROM SKIN.
FLUSH SKIN WITH WATER. FOLLOW BY WASHING WITH SOAP AND WATER.
F IRRITATION OCCURS, GET MEDICAL ATTENTION. DO NOT REUSE CLOTHING NTIL CLEANED.

#### INHALATION:

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION.

INGESTION: INDUCE VOMITING. DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC. IF IPECAC IS UNAVAILABLE, GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION. SEE NOTE TO PHYSICIAN, BELOW.

#### NOTE TO PHYSICIAN:

IF VICTIM IS A CHILD, GIVE NO MORE THAN 1 GLASS OF WATER AND 15CC (1 TABLESPOON) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

## ACETONE PAGE 6

SECTION 7

FIRE AND EXPLOSION HAZARDS

FLASH POINT: -15 F (TCC)

FLAMMABLE LIMITS: VOLUME IN AIR UPPER LIMITS: 12.8%

LOWER LIMITS: 2.6%

EXTINGUISHING MEDIA:

USE WATER FOG, "ALCOHOL" FOAM, DRY CHEMICAL, OR CARBON DIOXIDE.

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS:

DANGER. EXTREMELY FLAMMABLE. CLEAR FIRE AREAS OF UNPROTECTED PERSONNEL AND ISOLATE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS. GLOVES AND RUBBER BOOTS) INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT N CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME ONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER STRUCTURE.

VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR MAY BE MOVED BY VENTILATION AND IGNITED BY PILOT LIGHTS, OTHER FLAMES, SPARKS, HEATERS, SMOKING, ELECTRIC MOTORS, STATIC DISCHARGE, OR OTHER IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) CAN IGNITE EXPLOSIVLY.

SECTION 8

REACTIVITY

STABILITY: THIS PRODUCT IS STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:

AVOID HEAT, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS SUCH AS LIQUID CHLORINE, CONCENTRATED OXYGEN, SODIUM HYPOCHLORITE OR CALCIUM HYPOCHLORITE.

HAZARDOUS DECOMPOSITION PRODUCTS:

ARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

#### ACETONE PAGE 7

#### SECTION 9 SPILL AND DISPOSAL PRACTICES

SPILL:

EVACUATE THE AREA, VENTILATE, AND AVOID BREATHING VAPORS. DIKE AREA TO CONTAIN SPILL. CLEAN UP AREA (WEAR PROTECTIVE EQUIPMENT) BY MOPPING OR WITH ABSORBENT MATERIAL AND PLACE IN CLOSED CONTAINERS FOR DISPOSAL. AVOID CONTAMINATION OF GROUND AND SURFACE WATERS. DO NOT FLUSH TO SEWER.

#### WASTE DISPOSAL:

RECOVERED LIQUIDS MAY BE SENT TO A LICENSED RECLAIMER OR INCINERATION FACILITY. CONTAMINATED MATERIAL MUST BE DISPOSED OF IN A PERMITTED HAZARDOUS WASTE MANAGEMENT FACILITY. CONSULT FEDERAL, STATE OR LOCAL DISPOSAL AUTHORITIES FOR APPROVED PROCEDURES.

SECTION 10

#### SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHT, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE: FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

ONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED. CAN CONTAIN EXPLOSIVE VAPORS.DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS. STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

#### HANDLING AND STORAGE:

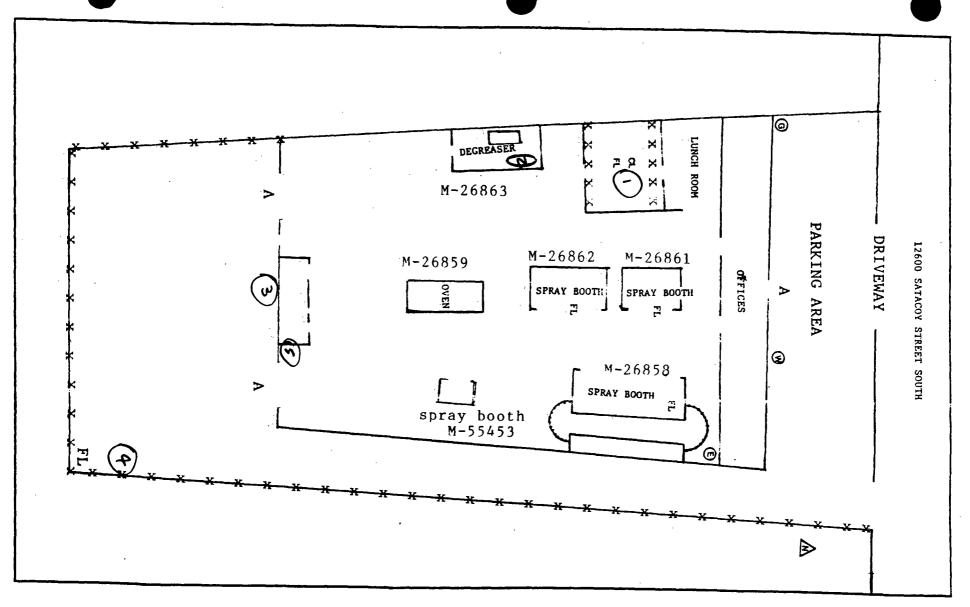
HANDLE WITH REASONABLE CARE AND CAUTION. AVOID BREATHING VAPORS. VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS, AND OTHER CONFINED AREAS. DO NOT ENTER THESE AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS SPECIAL BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE.

STORE DRUMS IN A COOL PLACE, BUNG UP AND TIGHTLY CLOSED. STORAGE TANKS SHOULD BE ADEQUATELY VENTED FOR FILLING AND PRESSURE EQUALIZATION. VENTS FROM INDOOR TANKS SHOULD TERMINATE OUTDOORS.

WASH WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED IS MADE. SINCE THE ACTUAL USE OF THIS PRODUCT BY OTHERS IS BEYOND THE CONTROL OF RHO-CHEM CORPORATION, IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SAFETY, TOXICITY AND SUITABILITY OR HIS OWN USE OF THIS PRODUCT.

EXHIBIT I



Business Name: CLYDE LEE INC.	
Business Adress (Site Address): 12600 SAT COY STREET SOUTH	Facility Unit: BUILDING
Main Business Activity: SPRAY PAINTING METAL PARTS.	Scale of Map: 1 in = 25 ft Date: 2-8-88

(KEY TO SYMBOLS AND ABBREVIATIONS ON THE FRONT OF THIS FORM)

EXHIBIT J

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DHS 8022 A (1/88)

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L	20. Facility Owner or Operator Certifica	tion of receipt of hazardous material	is covered by this manifest excess	a noted in Item 19.	<u> </u>
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### WARNING

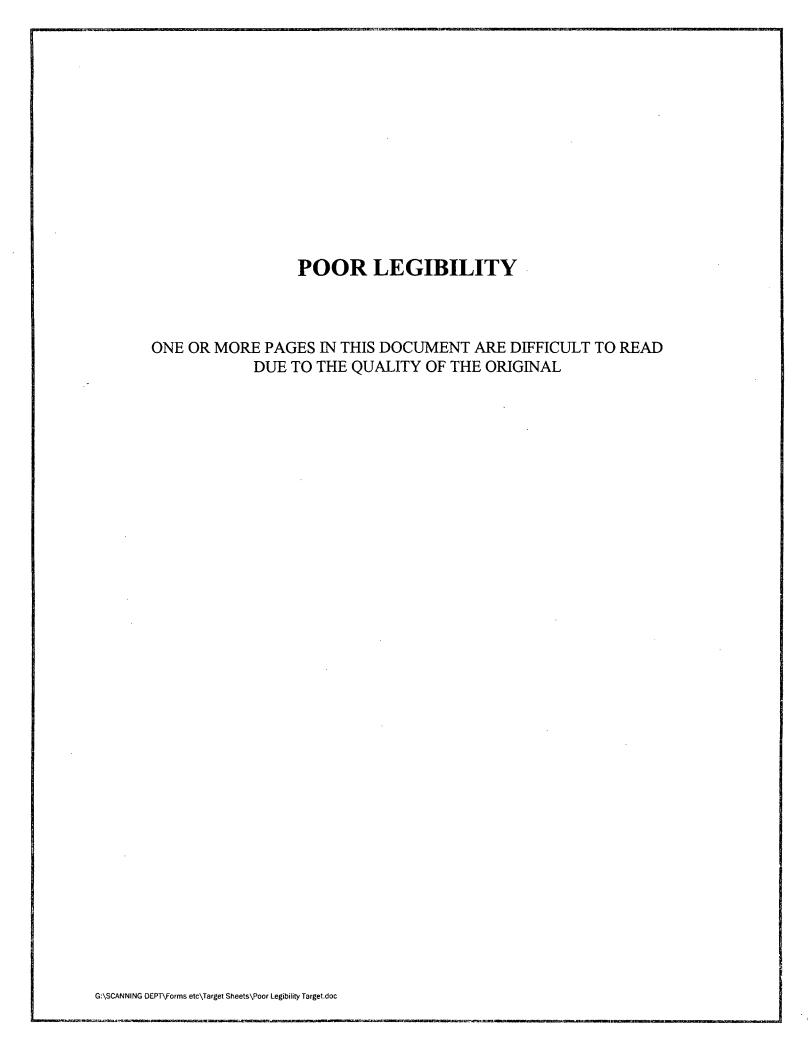
## IMPORTANT NOTICE DO NOT DETACH

#### SUPERFUND CONFIDENTIAL BUSINESS INFORMATION

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# FX-4 CBI Determined













































## FX-4 CBI Determined













































































































































## FX-4 CBI Determined

EXHIBIT M

93 (959

ARTICLES OF INCORPORATION

OF

CLYDE LEE, INC.

HIL O 1979 BILL HOURT I

FARRED

FIRST: The name of the corporation shall be Clyde Lee, Inc.

SECOND: The purpose of the corporation is to engage in any lawful act or activity for which a corporation may be organized under the General Corporation Law of California, other than the banking business, the trust company business, or the practice of a profession permitted to be incorporated by the California Corporations Code.

THIRD: The name of the corporation's initial agent for service of process within the State of California, in accordance with provisions of Subdivision (b) of Section 1502 of the General Corporation Law of the State of California, is Brian J. Tannenbaum, 9952 Santa Monica Boulevard, Beverly Hills, California, 90212.

FOURTH: The total number of shares which the corporation is authorized to issue is 10,000 all of which are of one class and are common shares.

FIFTH: The Board of Directors of the corporation may issue any or all of the aforesaid authorized shares of the corporation from time to time for such consideration, as it shall determine, and may determine from time to time the amount of such consideration, if any, to be credited to paid in surplus.

SIXTH: In the interim between the meeting of shareholders held for the election of directors, or for the removal of one or more directors, and the election of the replacements thereof, any vacancy which results by reason of the removal of a director, or directors, by the shareholders entitled to vote in an election of directors and which has not been filled by said shareholders may be filled by a majority of the directors then in office, whether or not less than a quorum, or by the sole remaining director, as the case may be.

SEVENTH: Each share of the corporation which is entitled to unlimited dividend rights and to unlimited voting rights shall entitle the holder thereof, for a period of thirty (30) days, to subscribe for or purchase authorized shares of the same class or options or securities having conversion or option rights to any such class which are to be issued or to subscribe for or purchase authorized shares of any other class conferring unlimited dividend rights and unlimited dividend rights or options or securities having conversion or option rights to any such class which are to be issued; provided, however, that whenever the corporation shall be authorized to issue two or more classes or series of shares, one or more of which confers upon the shares thereof of a greater proportion of voting power for each share or the right to vote for directors by class vote, then, and in that event, the holders of said shares class or series shall be entitled to the same preemptive rights as aforesaid.

1979.	Executed	this	29	day	of	June	1
					J,		

The undersigned does hereby declare and acknowledge that he is the person who executed the foregoing Articles of Incorporation as the incorporator of the corporation named therein and does hereby further declare and acknowledge that his execution of said Articles of Incorporation is his act and deed as said incorporator.

Executed this 29 day of June 1979.

## CERTIFICATE OF ADOPTION OF BY-LAWS

ADOPTION BY INCORPORATOR(S) OR FIRST DIRECTOR(S)	ADOPTION	BY	INCORPORATOR(	S) C	R	FIRST	DIRECTOR (	3)	
--	----------	----	---------------	------	---	-------	------------	----	--

The undersigned person(s) appointed in the Articles of Incorporation to act as the Incorporator(s) or First Director(s) of the above-named corporation hereby adopt the same as the By-Laws of said corporation.

Executed this 11 day of Agest, 1979.

Name

THIS IS TO CERTIFY:

That I am the duly-elected, qualified and acting Secretary of the above-named corporation; that the foregoing By-Laws were adopted as the By-Laws of said corporation on the date set forth above by the person(s) appointed in the Articles of Incorporation to act as the Incorporator(s) or First Director(s) of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed the corporate seal this // day of August Felleran, 19 79

Secretary

(SEAL)

CERTIFICATE BY SECRETARY OF ADOPTION BY SHAREHOLDERS' VOTE.
THIS IS TO CERTIFY:

That I am the duly-elected, qualified and acting Secretary of the above-named corporation and that the above and foregoing Code of By-Laws was submitted to the shareholders at their first meeting held on the date set forth in the By-Laws and recorded in the minutes thereof, was ratified by the vote of shareholders entitled to exercise the majority of the voting power of said corporation.

IN WITNESS WHEREOF, I have hereunto set my hand this day of August JE Prankell , 19 79.